

Course Information for: XBRL for Regulators and Utilities

- **Course Overview** – In this course, attendees will gain a basic understanding eXtensible Business Reporting Language (XBRL). By the end of the course the student will have a fundamental grasp of what XBRL is, its structure, and what challenges an analyst or auditor will encounter when using data provided in XBRL.
- **Intended Audience** – This course is intended for students in the field of rate regulation that want to become more familiar with XBRL and how it can be used by regulators and even the companies themselves.
- **Learning Objectives** – After this course, the student will have a foundational understanding XBRL and its use in regulatory reporting and oversight along with its use in audits and rate cases.
- **Course Level** – Basic
- **Course Prerequisites** –None
- **Advance Prep** – None
- **Delivery Method** – Online Group Live
- **NASBA National Registry Statement** -- The Institute of Public Utilities is registered with the National Association of State Boards of Accountancy (NASBA) as a sponsor of continuing professional education on the National Registry of CPE Sponsors. State Boards of Accountancy have the final authority on the acceptance of individual course for CPE credit. Complaints regarding registered sponsors may be submitted to the National Registry of CPE Sponsors through its website: www.nasbaregistry.org.
- **This course is eligible for CPE credit.**



Every company has big data in its future and every company will eventually be in the data business.” – By Thomas H. Davenport



*“You can have data without information, but you cannot have information without data.” –
By Daniel Keys Moran*

*Implementations are increasingly using XBRL
to work with very large data sets.
The XBRL Standard / XBRL & Big Data*

Just what does “XBRL” mean?

eXtensible Business Reporting Language



It's an XML-based
Structured-Data language

```
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  xmlns:xbrl="http://www.xbrl.org/2003/instance"
  xmlns:link="http://www.xbrl.org/1999/xlink"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:iso4217="http://www.w3.org/2006/xbrl-id"
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  xmlns:xbrldi="http://xbrl.org/2005/xbrldi"
  xmlns:xbrldt="http://xbrl.us/us-gaap/2009-01-31"
  xmlns:xbrldt="http://xbrl.us/us-gaap/2009-01-31"
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So, How was XBRL born?

```

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  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:iso4217="http://www.xbrl.org/2005/xbrldt"
  xmlns:iso4217="http://www.xbrl.org/2005/xbrldt"
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  xmlns:xbrldt="http://xbrl.us/us-gaap/2009-01-31"
  xmlns:xbrldt="http://xbrl.us/us-types/2009-01-31"
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  xmlns:dei="http://www.massivedynamic.com/20101231"
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```



XBRL was first conceived by a CPA named Charles Hoffman in Tacoma, Washington in **April 1998....** 25 years ago!

Why can't we use current web-based technology to transfer financial data from one computer-based platform to another without conversion or human interaction?



Use the same “Markup Language” that Internet Web Pages use.

eXtensible Markup Language (XML)

No Rekeying or Re-entering Data

Charlie’s Idea

The Automatic Validation of Data

Data could be “Tagged” with Relevant Meta-data



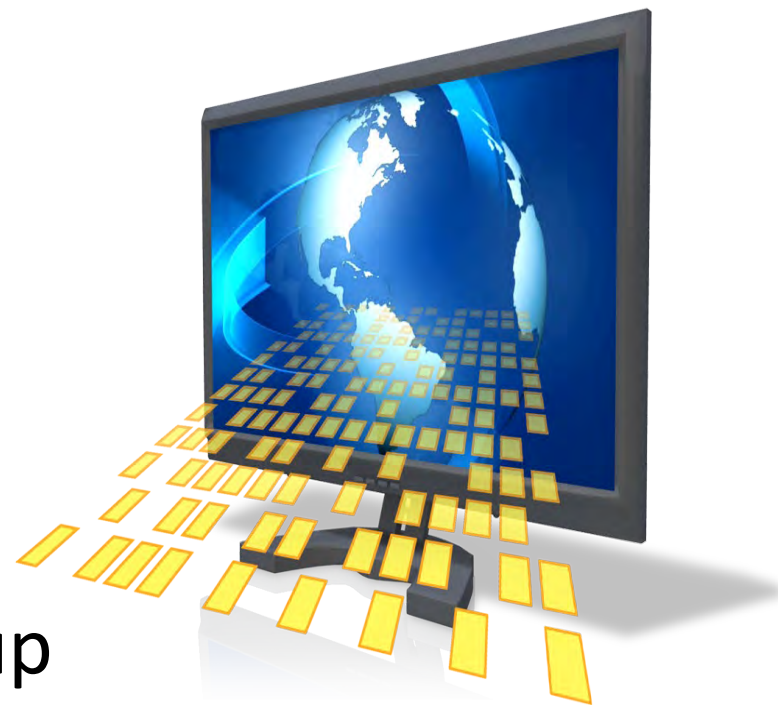
In July 1998, the chairperson of the AICPA High-Tech Task Force, contacted Charlie and had him brief the Task Force on his idea.



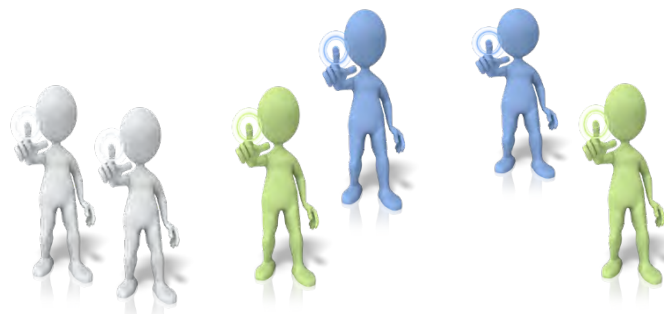
January 1999, the AICPA
released its first prototype!



XFRML – eXtensible
Financial Reporting Markup
Language.



April 2000 AICPA and the
soon to be “**XBRL
International***” officially
unveiled the first working
model of XBRL at press
conference in New York City

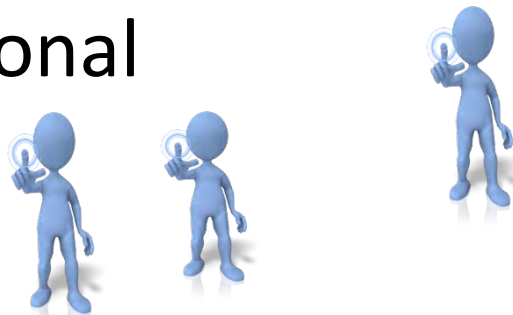


* XBRL International was created in 2001

In **February 2001**, XBRL International held its first conference in London with 10 countries attending and over 80 companies,

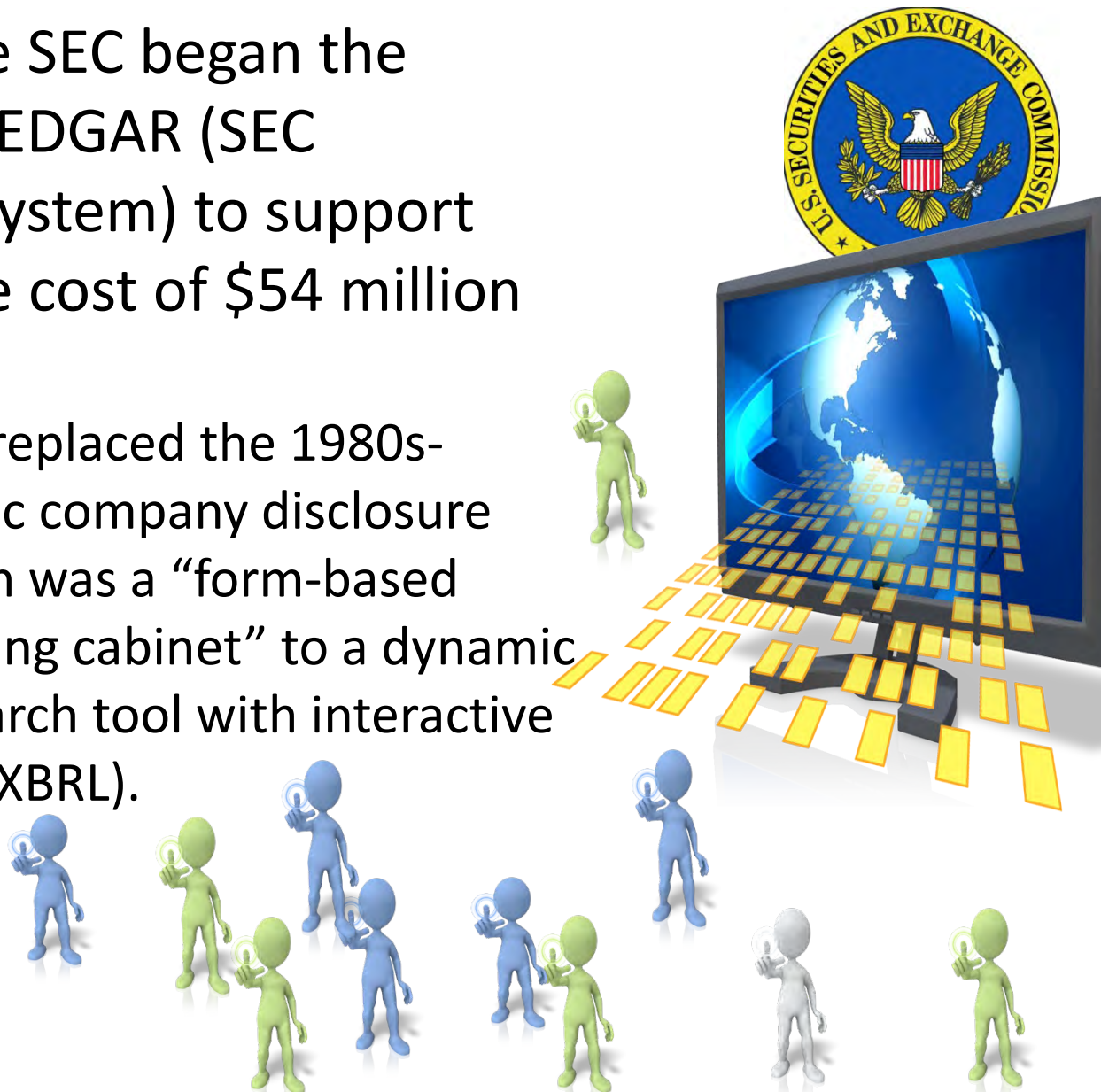


- **February 2001**, The International Accounting Standards Board (IFRS) released a draft of the first comprehensive XBRL taxonomy,
- Federal Deposit Insurance Corporation (FDIC) joins XBRL International



In 2006 the SEC began the revamp of EDGAR (SEC reporting system) to support XBRL at the cost of \$54 million

This project replaced the 1980s-vintage public company disclosure system which was a “form-based electronic filing cabinet” to a dynamic real-time search tool with interactive capabilities (XBRL).



In 2006 the SEC began the revamp of EDGAR (SEC reporting system) to support XBRL at the cost of \$54 million

By 2009 all companies were filing using eXtensible Business Reporting Language (XBRL).



Poll Question

Who is this guy? (Hint: He was a good friend of Leonardo da Vinci).

1. Drew Taggart
2. Luca Pacioli
3. Natsu Dragneel
4. Jean-Luc Picard



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Luca wrote the first known description of double-entry accounting in 1494. His writing help spread the method, commonly called the Venetian method, throughout Europe.

Purpose of XBRL

The purpose of XBRL is to structure economic, financial, and business information & data in such a way so that it can be efficiently and effectively collected, prepared, and communicated, thus resulting in efficient and effective review and analysis.



```
<?xml version="1.0" encoding="UTF-8"?>
<xbrl:xbml xmlns:isb="http://www.xbrl.org/2003/instance"
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  xmlns:xsoid="http://www.xbrl.org/2005/xbrldt"
  xmlns:xbrldt="http://www.xbrl.org/2005/xbrldt"
  xmlns:us-gaap="http://xbrl.us/us-gaap/2009-01-31"
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  decimals="0">14976938660300000</dei:EntityPublicList>
```


Purpose of XBRL

The purpose of XBRL is to structure **economic, financial, and business information & data** in such a way so that it can be efficiently and effectively collected, prepared, and communicated resulting in an efficient and effective review and analysis.

Not just financial and economical statistical data but also “information”!

```

<?xml version="1.0" encoding="UTF-8"?>
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  xmlns:us-types="http://xbrl.us/2009-01-31"
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```

6 Steps in "Data Prepping" Data

- Collection
- Classification
- Cleaning
- Structuring
- Transformation
- Validation

analysis.

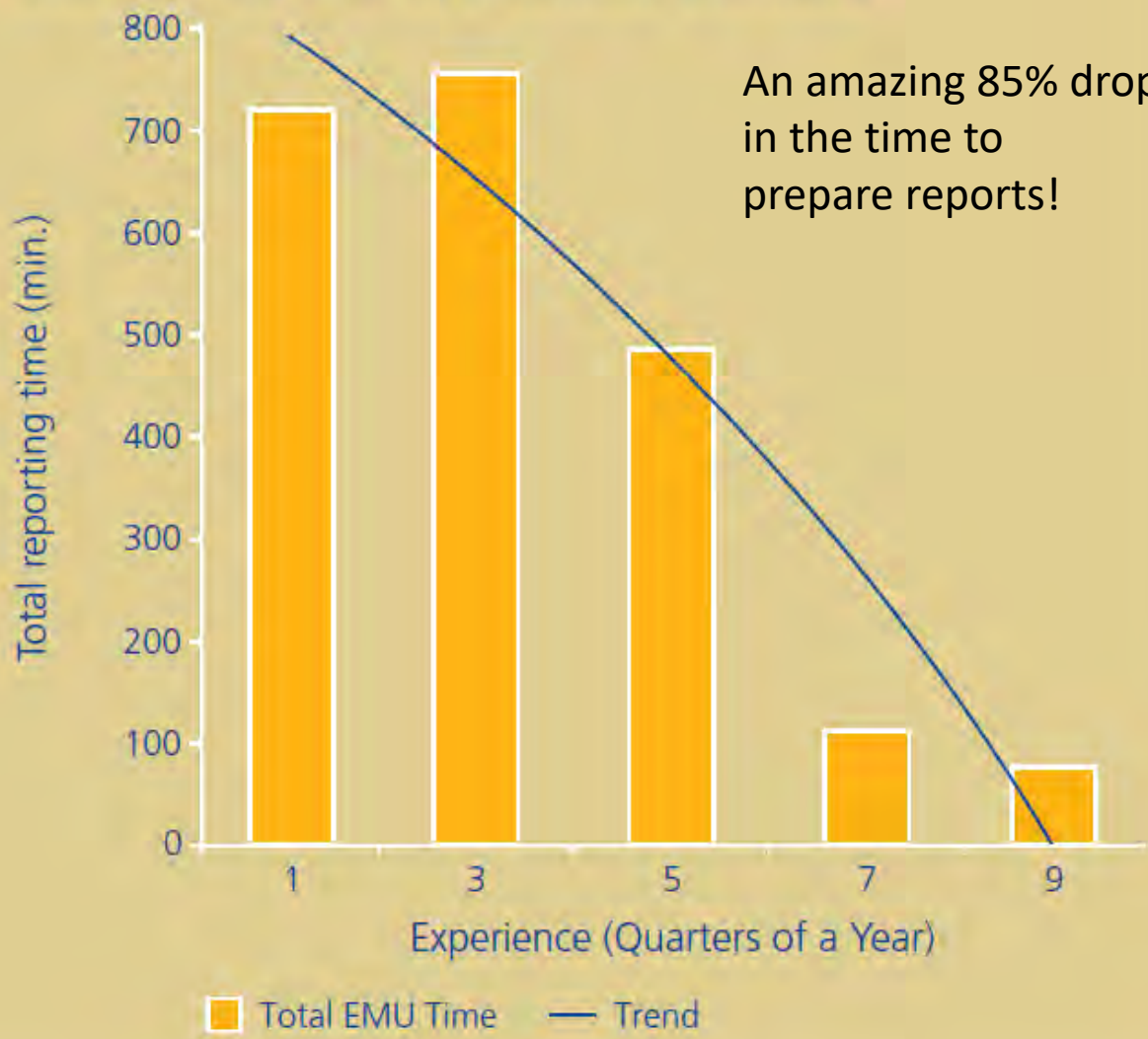
Data scientists spend 60% of their time on cleaning and organizing data. Collecting data sets comes second at 19% of their time, meaning data scientists spend around 80% of their time on preparing and managing data for analysis.

Forbes: Cleaning Big Data (forbes.com)

are
S
so that it
collected,
resulting in
nd



Total reporting time vs. experience with XBRL



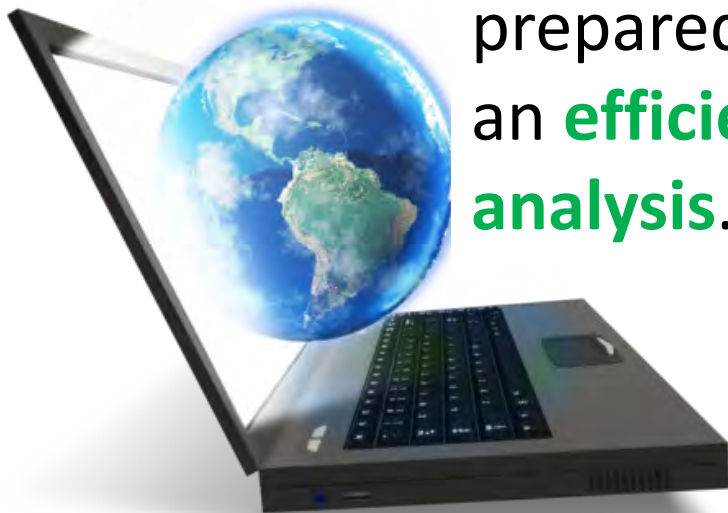
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```


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```
<?xml version="1.0" encoding="UTF-8"?>
<xbrl:xbml xmlns:isb="http://www.xbrl.org/2003/instance"
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  xmlns:xbrldi="http://www.xbrl.org/2005/xbrldi"
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  xmlns:us-types="http://xbrl.us/us-types/2009-01-31"
  xmlns:dei="http://xbrl.us/dei/2009-01-31"
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  decimals="0">149769386603000000</dei:EntityPublicPostAcceleratedDate>
```



Poll Question

What are NOT a step in the preparation of data before analysis can begin?

1. Collection
2. Cleaning
3. Validation
4. Cleaning and Alterations



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```

<?xml version="1.0" encoding="UTF-8"?>
<xbrli:xbrl xmlns:isdt="http://www.xbrl.org/2003/instance"
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  xmlns:dei="http://www.massivedynamic.com/20101231"
  xmlns:masd="http://www.massivedynamic.com/20101231"
  xmlns:masd="simple"
  xlink:type="simple"
  xlink:href="masd-20101231.xsd"
  xlink:arcrole="http://www.xbrl.org/2009-01-31" contextRef="fy10d">10-
  <dei:DocumentType xmlns:dei="http://xbrl.us/dei/2009-01-31"
  K/>
  <dei:DocumentPeriodEndDate xmlns:dei="http://xbrl.us/dei/2009-01-31"
  <dei:DocumentPeriodStartName xmlns:dei="http://xbrl.us/dei/2009-01-31"
  contextRef="fy10d">2010-12-31</dei:DocumentPeriodStartName>
  <dei:EntityRegistrantName xmlns:dei="http://xbrl.us/dei/2009-01-31"
  contextRef="fy10d">MASSIVE DYNAMIC INC</dei:EntityRegistrantName>
  <dei:EntityWellKnownSeasonedIssuer xmlns:dei="http://xbrl.us/dei/2009-01-31"
  contextRef="fy10d">Yes</dei:EntityWellKnownSeasonedIssuer>
  <dei:EntityCurrentReportingStatus xmlns:dei="http://xbrl.us/dei/2009-01-31"
  contextRef="fy10d">Yes</dei:EntityCurrentReportingStatus>
  <dei:EntityFilerCategory xmlns:dei="http://xbrl.us/dei/2009-01-31"
  contextRef="fy10d">Large Accelerated Filer </dei:EntityFilerCategory>
  <dei:EntityPublicFloat xmlns:dei="http://xbrl.us/dei/2009-01-31"
  contextRef="fy10d_MeasurementDate"
  unitRef="USD"
  decimals="0">149769380603000000</dei:EntityPublicFloat>
  
```

Governance

XBRL





```

org/inlineXBRL/transformation/2010-04-20"
.i.org/2003/instance"
.i.org/2003/linkbase"
.i.org/1999/xlink"
.i.org/XMLSchema-instance"
.org/2003/iso4217"
.xbrl.org/2003/xbrl"
.i.org/2005/xbrl"
.i.org/2005/xbrl-gaap"
http://xbrl.us/us-gaap/2009-01-31"
http://xbrl.us/us-types/2009-01-31"
"http://xbrl.us/dei/2009-01-31"
"http://xbrl.us/dei/20101231"
xlink:schemaRef xmlns:
xmlns:us-type-
xmlns:dei="http://www.massivedynamic.com/20101231"
xmlns:masd="http://www.massivedynamic.com/20101231"
xlink:type="simple"
xlink:href="masd-20101231.xsd"
xlink:arcrole="http://xbrl.us/dei/2009-01-31" contextRef="fy10d">10-
<dei:DocumentType xmlns:dei="http://xbrl.us/dei/2009-01-31"
K/><dei:DocumentType>
<dei:DocumentPeriodEndDate xmlns:dei="http://xbrl.us/dei/2009-01-31"
contextRef="fy10d">2010-12-31</dei:DocumentPeriodEndDate>
<dei:EntityRegistrantName xmlns:dei="http://xbrl.us/dei/2009-01-31"
contextRef="fy10d">MASSIVE DYNAMIC INC</dei:EntityRegistrantName>
<dei:EntityWellKnownSeasonedIssuer xmlns:dei="http://xbrl.us/dei/2009-01-31"
contextRef="fy10d">Yes</dei:EntityWellKnownSeasonedIssuer>
<dei:EntityCurrentReportingStatus xmlns:dei="http://xbrl.us/dei/2009-01-31"
contextRef="fy10d">Yes</dei:EntityCurrentReportingStatus>
<dei:EntityFilerCategory xmlns:dei="http://xbrl.us/dei/2009-01-31"
contextRef="fy10d">Large Accelerated Filer </dei:EntityFilerCategory>
<dei:EntityPublicFloat xmlns:dei="http://xbrl.us/dei/2009-01-31"
contextRef="fy10e_MeasurementDate"
unitRef="USD"
decimals="0">149769386603000000</dei:EntityPublicFloat>

```

XBRL International

THE BUSINESS REPORTING STANDARD

Governance

XBRL International is a global entity with a stated purpose to improve the accountability and transparency of business performance globally by providing an open-data exchange-standard for business reporting. (xbrl.org)

XBRL International

- Is a not-for-profit membership corporation.
- Created in 2001
- Oversight is provided by an eight-member Board of Directors which are approved by the Member Assembly.
- Made up of 27 country-specific jurisdictions




```
<?xml version="1.0" encoding="UTF-8"?>  
<xbrli:xbrl xmlns:istb="http://www.xbrl.org/inlineXBRL/transformation/2010-04-20"  
  xmlns:xbrli="http://www.xbrl.org/2003/instance"  
  xmlns:link="http://www.xbrl.org/1999/link"  
  xmlns:xlink="http://www.w3.org/2001/XMLSchema-instance"  
  xmlns:xsi="http://www.w3.org/2001/XMLSchema" iso4217"  
  xmlns:iscol217="http://www.xbrl.org/2005/xbrldt">  
  xmlns:iscol217="http://www.xbrl.org/2005/xbrldt">  
  xmlns:xbrldt="http://xbrl.org/2005/iso4217"  
  xmlns:xbrldt="http://xbrl.org/2005/iso4217"  
  xmlns:xbrldt="http://xbrl.us/us-gaap/2009-01-31"  
  xmlns:xbrldt="http://xbrl.us/us-gaap/2009-01-31"  
  xmlns:us-gaap="http://xbrl.us/dei/2009-01-31"  
  xmlns:us-gaap="http://xbrl.us/dei/2009-01-31"  
  xmlns:dei="http://www.massivedynamic.com/20101231"  
  xmlns:dei="http://www.massivedynamic.com/20101231"  
  xmlns:masd="http://www.xbrl.org/2003/linkbase/">  
  xlink:type="simple"  
  xlink:href="masd-20101231.xsd" contextRef="fy10d">10-  
  xlink:arcrole="http://www.xbrl.us/dei/2009-01-31" contextRef="fy10d">10-  
  xlink:arcrole="http://www.xbrl.us/dei/2009-01-31" contextRef="fy10d">10-  
  <dei:DocumentType xmlns:dei="http://xbrl.us/dei/2009-01-31"  
K/dei:DocumentType>  
<dei:DocumentPeriodEndDate xmlns:dei="http://xbrl.us/dei/2009-01-31"  
<dei:DocumentPeriodEndDate xmlns:dei="http://xbrl.us/dei/2009-01-31"  
contextRef="fy10d">2010-12-31</dei:DocumentPeriodEndDate>  
<dei:EntityRegistrantName xmlns:dei="http://xbrl.us/dei/2009-01-31"  
contextRef="fy10d">MASSIVE DYNAMIC INC</dei:EntityRegistrantName>  
<dei:EntityWellKnownSeasonedIssuer xmlns:dei="http://xbrl.us/dei/2009-01-31"  
contextRef="fy10d">Yes</dei:EntityWellKnownSeasonedIssuer>  
<dei:EntityCurrentReportingStatus xmlns:dei="http://xbrl.us/dei/2009-01-31"  
contextRef="fy10d">Yes</dei:EntityCurrentReportingStatus>  
<dei:EntityFilerCategory xmlns:dei="http://xbrl.us/dei/2009-01-31"  
contextRef="fy10d">Large Accelerated Filer </dei:EntityFilerCategory>  
<dei:EntityPublicFloat xmlns:dei="http://xbrl.us/dei/2009-01-31"  
contextRef="fy10d_MeasurementDate" unitRef="USD"  
<dei:EntityPublicFloat xmlns:dei="http://xbrl.us/dei/2009-01-31"  
contextRef="fy10d_MeasurementDate" unitRef="USD"  
  decimals="0">149769380603000000</dei:EntityPublicFloat>
```

XBRL

Users



Governments Regulators

- Governments
- Regulators
- Companies
- Data compilers
- Analyst
- Investors
- Accountants and
- Auditors

Users

```
<?xml version="1.0" encoding="UTF-8"?>
<xbrli:xbrl xmlns:isrt="http://www.xbrl.org/2003/instance"
  xmlns:link="http://www.xbrl.org/1999/xlink"
  xmlns:xlink="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema"
  xmlns:iso4217="http://www.xbrl.org/2005/xbrldt"
  xmlns:iscol217="http://www.xbrl.org/2005/xbrldt"
  xmlns:xbrldt="http://xbrl.org/2005/xbrldt"
  xmlns:us-gaap="http://xbrl.us/us-gaap/2009-01-31"
  xmlns:xbrldt="http://xbrl.us/us-gaap/2009-01-31"
  xmlns:us-types="http://xbrl.us/dei/2009-01-31"
  xmlns:us-types="http://xbrl.us/dei/2009-01-31"
  xmlns:dei="http://www.massivedynamic.com/20101231"
  xmlns:masd="http://www.xbrl.org/2003/linkbase" />
<xlink:type="simple"
  xlink:href="masd-20101231.xsd"
  xlink:arcrole="http://www.xbrl.us/dei/2009-01-31" contextRef="fy10d">10</xlink:arcrole>
<dei:DocumentType xmlns:dei="http://xbrl.us/dei/2009-01-31"
  K/>
<dei:DocumentPeriodEndDate xmlns:dei="http://xbrl.us/dei/2009-01-31"
  contextRef="fy10d">2010-12-31</dei:DocumentPeriodEndDate>
<dei:EntityRegistrantName xmlns:dei="http://xbrl.us/dei/2009-01-31"
  contextRef="fy10d">DYNAMIC INC</dei:EntityRegistrantName>
<dei:EntityWellKnownSeasonedIssuer xmlns:dei="http://xbrl.us/dei/2009-01-31"
  contextRef="fy10d">Yes</dei:EntityWellKnownSeasonedIssuer>
<dei:EntityCurrentReportingStatus xmlns:dei="http://xbrl.us/dei/2009-01-31"
  contextRef="fy10d">Yes</dei:EntityCurrentReportingStatus>
<dei:EntityFilerCategory xmlns:dei="http://xbrl.us/dei/2009-01-31"
  contextRef="fy10d">Large Accelerated Filer </dei:EntityFilerCategory>
<dei:EntityPublicFloat xmlns:dei="http://xbrl.us/dei/2009-01-31"
  contextRef="fy10d_MeasurementDate"
  unitRef="USD"
  decimals="0">149769386603000000</dei:EntityPublicFloat>
```



Governments Regulators

- Financial regulators – Banking and Financial markets
- Economic Regulators – Rate-setting agencies
- Securities regulators and stock exchanges
- Business registrars: Corporate data about private and public companies – Sec of State
- Tax authorities – State and Federal
- Statistical and monetary policy authorities

Business.gov.nl

GOV.UK

XBRL is the international standard for digital business reporting, used around the world, by more than 60 countries

JAPAN EXCHANGE GRC
TOKYO STOCK EXCHANGE
OSAKA EXCHANGE
TOKYO COMMODITY EXCHANGE
JPX MARKET INNOVATION & RESEARCH
JAPAN EXCHANGE REGULATION
JAPAN SECURITIES CLEARING CORPORATK

MENU
Equities, Debt, Funds

- Contents
- 1 Introduction
- 2 XBRL 2 XBRL - the basics
 - 2.1 What XBRL/XBRL is
 - 2.2 How iXBRL is being used in the UK
 - 2.3 What the benefits of iXBRL are
- 3 iXBRL 3 iXBRL reporting - how it impacts your business

The guide explains what XBRL is, its adoption, the iXBRL format to HM Revenue and Customs (HMRC), and how businesses may introduce it for their financial reporting. It describes the main options and issues for business to consider when adopting iXBRL and points to the benefits which XBRL tagging offers for business processes.



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Government Digital service

community and
me spent collati

Structure and Rules

XBRL is a nonproprietary, open source, platform-independent system for data reporting.

Platform Independent – means

- XBRL can be used on machines with a variety of hardware platforms or software architectures!
 - Examples of different hardware platforms
 - Windows, Linux, Mac, Android
 - Examples of different software platforms
 - Oracle, SAP, Power BI, Excel

```

<?xml version="1.0" encoding="UTF-8"?>
<xbrl:xbml xmlns:isb="http://www.xbrl.org/inlineXBRL/transformation/2010-04-20"
  xmlns:xbcli="http://www.xbrl.org/2003/linkbase"
  xmlns:link="http://www.xbrl.org/1999/link"
  xmlns:xlink="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsi="http://www.xbrl.org/2003/xbrl-id"
  xmlns:iscol217="http://www.xbrl.org/2005/xbrl-id"
  xmlns:xbclid="http://xbrl.org/2005/xbclid"
  xmlns:xbclidt="http://xbrl.us/us-gaap/2009-01-31"
  xmlns:xbclidt="http://xbrl.us/us-gaap/2009-01-31"
  xmlns:us-gaap="http://xbrl.us/us-gaap/2009-01-31"
  xmlns:us-types="http://xbrl.us/us-types/2009-01-31"
  xmlns:schemaRef="http://www.massivedynamic.com/20101231"
  xmlns:dei="http://www.massivedynamic.com/20101231"
  xmlns:masd="http://www.xbrl.org/2003/linkbase"
  xmlns:masd="simple"
  xlink:type="simple"
  xlink:href="masd-20101231.xsd" contextRef="fy10d">10-
  xlink:arcrole="http://xbrl.us/dei/2009-01-31"
  xlink:arcrole="http://xbrl.us/dei/2009-01-31"
  <dei:DocumentType xmlns:dei="http://xbrl.us/dei/2009-01-31"
    K</dei:DocumentType>
    <dei:DocumentPeriodEndDate xmlns:dei="http://xbrl.us/dei/2009-01-31"
      contextRef="fy10d">2010-12-31</dei:DocumentPeriodEndDate>
    <dei:DocumentPeriodName xmlns:dei="http://xbrl.us/dei/2009-01-31"
      contextRef="fy10d">DYNAMIC INC</dei:DocumentPeriodName>
    <dei:EntityRegistrantName xmlns:dei="http://xbrl.us/dei/2009-01-31"
      contextRef="fy10d">MASSIVE DYNAMIC INC</dei:EntityRegistrantName>
    <dei:EntityWellKnownSeasonedIssuer xmlns:dei="http://xbrl.us/dei/2009-01-31"
      contextRef="fy10d">Yes</dei:EntityWellKnownSeasonedIssuer>
    <dei:EntityCurrentReportingStatus xmlns:dei="http://xbrl.us/dei/2009-01-31"
      contextRef="fy10d">Yes</dei:EntityCurrentReportingStatus>
    <dei:EntityFilerCategory xmlns:dei="http://xbrl.us/dei/2009-01-31"
      contextRef="fy10d">Large Accelerated Filer</dei:EntityFilerCategory>
    <dei:EntityPublicFloat xmlns:dei="http://xbrl.us/dei/2009-01-31"
      contextRef="fy10d">
      unitRef="USD"
      decimals="0">149769380603000000</dei:EntityPublicFloat>
  </dei:DocumentType>
  </xbrl:xbml>
  
```



Structure and Rules

XBRL is based on the same “**markup language**” that the internet uses - XML.

A **Markup Language** is a system for annotating text in a way which that adds information but is distinguishable from text itself.

XML (Extensible Markup Language) is a **Markup language** and file format:

- For storing, transmitting, and reading data,
- Defines rules for encoding documents in a format that is both human-readable and machine-readable.

Structure and Rules

XBRL is based on the same “markup language” that the internet uses - XML.

AMENDATORY SECTION(Amending Docket A-081419, General Order R-554, filed 12/23/08, effective 1/23/09)

WAC 480-93-999 Adoption by reference. In this chapter, the commission adopts by reference each of the regulations and/or standards identified below. Each regulation or standard is listed by publication, publisher, scope of what the commission is adopting, effective date of the regulation or standard, the place within the commission's rules the regulation or standard is referenced, and where to obtain the regulation or standard.

(1) Parts 191, 192, 193, and 199 of Title 49 Code of Federal Regulations, including all appendices and amendments thereto as published by the United States Government Printing Office.

(a) The commission adopts the version of the above regulations that were in effect on ((September 2, 2008)) October 1, 2009, except the following sections are not adopted by reference: 191.1, 192.1(a), 193.2001(a), 199.1. In addition, please note that in WAC 480-93-013, the commission includes "new construction" in the definition of "covered task," as defined in 49 CAR § 192.801 (b)(2).

(b) This publication is referenced in WAC 480-93-005, 480-93-080, 480-93-100, 480-93-110, 480-93-124, 480-93-155, 480-93-170, 480-93-180, and 480-93-18601.

(c) ((The Code of Federal Regulations is published by the federal government.)) Copies of Title 49 Code of Federal Regulations are available from ((most Government Printing Offices, including the Seattle office of the Government Printing Office, as well as from various third party vendors and various libraries, including the branch of the state library located at the commission)) the U.S. Government Online Bookstore, <http://bookstore.gpo.gov/>. It is also available for inspection at the commission.

(2) Section IX of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code.

(a) The commission adopts the ((2004)) 2004 edition of Section IX of the ASME Boiler and Pressure Vessel Code, including addenda through July 1, 2005.

C:\XML\CDT-FG\Development\GAO.xml - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address C:\XML\CDT-FG\Development\GAO.xml

```
<?xml version="1.0" encoding="UTF-8" ?>
- <Collection xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="thesaurus.xsd">
  - <Concept>
    <prefLabel>computer</prefLabel>
    <altLabel>computer equipment; computer hardware</altLabel>
    <narrower>embedded computer system; mainframe computer; personal computer; supercomputer</narrower>
    <broader>electronic equipment</broader>
    <related>computer crime; computer equipment contract; computer equipment industry; computer equipment
      management; computer network; information technology</related>
  </Concept>
  - <Concept>
    <prefLabel>computer network</prefLabel>
    <narrower>Internet; intranet; local area network; wide area ne
    <broader>computer; telecommunication</broader>
    <related>data transmission; computer network protocol; comp
  </Concept>
  - <Concept>
    <prefLabel>computer security</prefLabel>
    <altLabel>computer security measures</altLabel>
    <definition>Measures to protect a compute's hardware, software and data.</definition>
    <narrower>computer crimes; computer viruses; data encryption; data integrity; facility security; hackers;
      identity verification; information resources management</narrower>
    <broader>security</broader>
  </Concept>
  - <Concept>
    <prefLabel>computer software</prefLabel>
    <altLabel>computer programs; software</altLabel>
    <definition>Instructions that cause computers to function. Includes data bases and programs.</definition>
    <narrower>application software; computer virus; data base; operating system</narrower>
    <broader>information technology; programming languages</broader>
    <related>computer software documentation; computer software industry; computer software reuse; computer
      software verification and validation; computer-aided software engineering</related>
  </Concept>
  - <Concept>
    <prefLabel>computer virus</prefLabel>
    <definition>computer software that copies itself by attaching to other software and executing unwanted
```

The World Wide Web Consortium (W3C) is an [international community](#) that develops open [standards](#) to ensure the long-term growth of the Web.

Structure and Rules

XML is a standardized language that has a set of **rules** that are used to create and define other languages such as XBRL

XBRL, based on XML, also has its own set of **rules**!

Structure and Rules

XML is a standardized language that has a set of **rules** that are used to create and define other languages such as XBRL

XML is a **metalanguage**, a language that allows the creation of another markup language ...Like XBRL!

Structure and Rules

Essential XBRL Document Files

- Instance Document
- Taxonomy

Based on XML and XBRL rules

```

<?xml version="1.0" encoding="UTF-8"?>
<xbrl:xbri xmlns:isrt="http://www.xbrl.org/2003/instance"
  xmlns:xbrli="http://www.xbrl.org/2003/linkbase"
  xmlns:link="http://www.xbrl.org/1999/xlink"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:iscol217="http://www.xbrl.org/2005/xbrldt"
  xmlns:iscol218="http://www.xbrl.org/2005/xbrldt"
  xmlns:xbrldt="http://xbrl.org/2005/xbldt"
  xmlns:us-gaap="http://xbrl.us/us-gaap/2009-01-31"
  xmlns:us-types="http://xbrl.us/us-types/2009-01-31"
  xmlns:us-gaap="http://xbrl.us/dei/2009-01-31"
  xmlns:us-types="http://xbrl.us/dei/2009-01-31"
  xmlns:dei="http://www.massivedynamic.com/20101231"
  xmlns:masd="http://www.massivedynamic.com/20101231"
  xmlns:masd="http://www.xbrl.org/2003/linkbase"
  xlink:type="simple"
  xlink:href="masd-20101231.xsd" contextRef="fy10d">10"
  xlink:arcrole="http://www.xbrl.us/dei/2009-01-31"
  xlink:arcrole="http://xbrl.us/dei/2009-01-31"
  <dei:DocumentType xmlns:dei="http://xbrl.us/dei/2009-01-31"
    K</dei:DocumentType>
    <dei:DocumentPeriodEndDate xmlns:dei="http://xbrl.us/dei/2009-01-31"
      contextRef="fy10d">2010-12-31</dei:DocumentPeriodEndDate>
    <dei:EntityRegistrantName xmlns:dei="http://xbrl.us/dei/2009-01-31"
      contextRef="fy10d">MASSIVE DYNAMIC INC</dei:EntityRegistrantName>
    <dei:EntityWellKnownSeasonalIssuer xmlns:dei="http://xbrl.us/dei/2009-01-31"
      contextRef="fy10d">Yes</dei:EntityWellKnownSeasonalIssuer>
    <dei:EntityCurrentReportingStatus xmlns:dei="http://xbrl.us/dei/2009-01-31"
      contextRef="fy10d">Yes</dei:EntityCurrentReportingStatus>
    <dei:EntityFilerCategory xmlns:dei="http://xbrl.us/dei/2009-01-31"
      contextRef="fy10d">Large Accelerated Filer </dei:EntityFilerCategory>
    <dei:EntityPublicFloat xmlns:dei="http://xbrl.us/dei/2009-01-31"
      contextRef="fy10d_MeasurementDate"
      unitRef="USD"
      decimals="0">149769380603000000</dei:EntityPublicFloat>
  
```

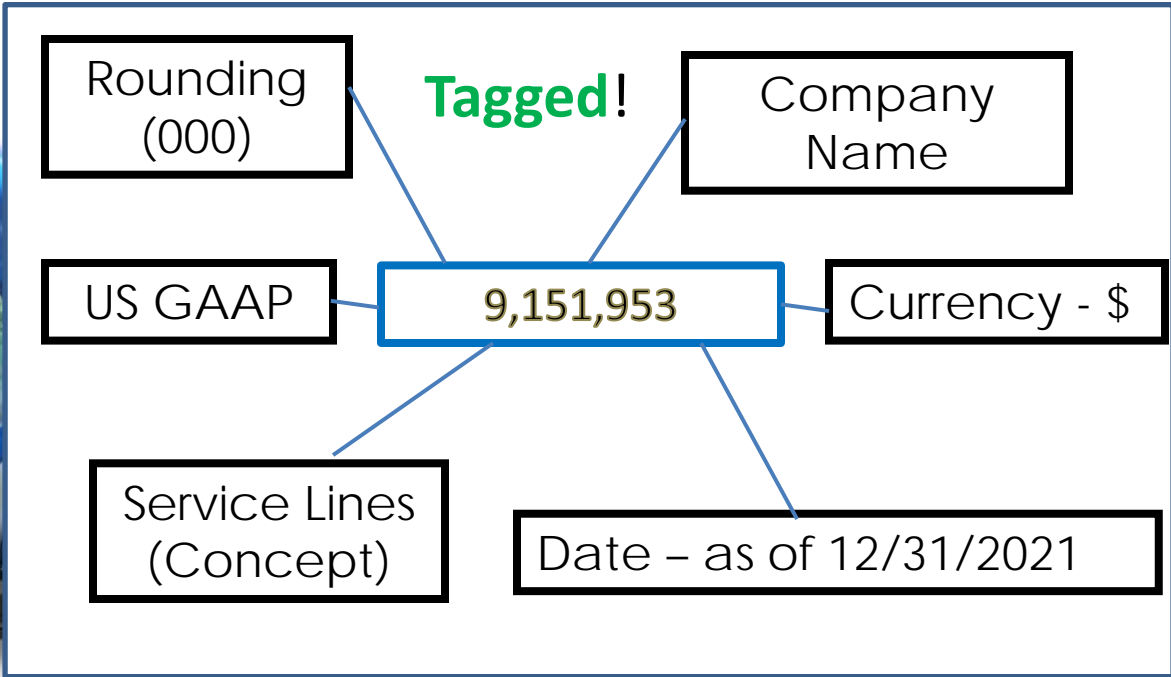


Structure and Rules

Instance Document

```

<?xml version="1.0" encoding="UTF-8"?>
<xbrl:xbri xmlns:isrt="http://www.xbrl.org/2003/instance"
  xmlns:xbrli="http://www.xbrl.org/2003/linkbase"
  xmlns:link="http://www.xbrl.org/1999/link"
  xmlns:xlink="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsai="http://www.xbrl.org/2005/xbrldt"
  xmlns:iscol217="http://www.xbrl.org/2005/xbrldt"
  xmlns:xbrldt="http://xbrl.org/2005/iso4217"
  xmlns:us-gaap="http://xbrl.us/us-gaap/2009-01-31"
  xmlns:us-types="http://xbrl.us/us-types/2009-01-31"
  xmlns:dei="http://xbrl.us/dei/2009-01-31"
  xmlns:us-types2="http://xbrl.us/dei/2009-01-31"
  xmlns:us-types3="http://www.massivedynamic.com/20101231"
  xmlns:masd="http://www.massivedynamic.com/20101231"
  xmlns:masd2="http://www.xbrl.org/2003/linkbase"
  xmlns:type="simple"
  xlink:href="masd-20101231.xsd"
  xlink:arcrole="http://www.xbrl.us/dei/2009-01-31" contextRef="fy10d">10-
  <dei:DocumentType xmlns:dei="http://xbrl.us/dei/2009-01-31"
    K</dei:DocumentType>
    <dei:DocumentPeriodEndDate xmlns:dei="http://xbrl.us/dei/2009-01-31"
      contextRef="fy10d">2010-12-31</dei:DocumentPeriodEndDate>
    <dei:EntityRegistrantName xmlns:dei="http://xbrl.us/dei/2009-01-31"
      contextRef="fy10d">DYNAMIC INC</dei:EntityRegistrantName>
    <dei:EntityWellKnownSeasonedIssuer xmlns:dei="http://xbrl.us/dei/2009-01-31"
      contextRef="fy10d">Yes</dei:EntityWellKnownSeasonedIssuer>
    <dei:EntityCurrentReportingStatus xmlns:dei="http://xbrl.us/dei/2009-01-31"
      contextRef="fy10d">Yes</dei:EntityCurrentReportingStatus>
    <dei:EntityFilerCategory xmlns:dei="http://xbrl.us/dei/2009-01-31"
      contextRef="fy10d">Large Accelerated Filer</dei:EntityFilerCategory>
    <dei:EntityPublicFloat xmlns:dei="http://xbrl.us/dei/2009-01-31"
      contextRef="fy10d">Large Accelerated Filer</dei:EntityPublicFloat>
    <dei:EntityPublicFloat unitRef="USD"
      decimals="0">49769386603000000</dei:EntityPublicFloat>
  
```



Structure and Rules

Instance Document

Before the instance document is submitted – XBRL provides for the Validation of Data in four aspects!

Correctness –

- Is the use of XML and XBRL syntax & structure correct
- Is it consistent with the required Taxonomy
- It does not know if the data itself is correct!



Structure and Rules

Instance Document

Before the instance document is submitted – XBRL provides for the Validation of Data in four aspects!

Completeness –

- All data required to be reported is reported
- Complete submission – all required components included



Structure and Rules

Instance Document

Before the instance document is submitted – XBRL provides for the Validation of Data in four aspects!

Accuracy –

- “Inter-instance” validation e.g., $a+b=c$ $a-c=b$
- Group summations = the total of its parts
- May include variance waivers
- May also include flags for predetermined variances from expected values



Structure and Rules

Instance Document

Before the instance document is submitted – XBRL provides for the Validation of Data in four aspects!

Consistency –

- “Inter and Intra instance” validation
- $\text{Assets} = \text{Liabilities} + \text{Equity}$
- $\text{Beginning balances} = \text{Ending balances LY}$
- Accounts with zero change may be flagged



Structure and Rules

Instance Document

If Instance is Validated, the final document is uploaded to the regulator as a filed report (SEC or FERC)



FINANCIAL ACCOUNTING SERIES

Accounting Standards Update 2023-03

Presentation of Financial Statements (Topic 205), Income Statement—Reporting Comprehensive Income (Topic 220), Distinguishing Liabilities from Equity (Topic 480), Equity (505), and Compensation—Stock Compensation (Topic 718)

Amendments to the GAAP Taxonomy

The amendments to the FASB Accounting Standards Codification® in this Accounting Standards Update require improvements to the GAAP Financial Reporting Taxonomy and SEC Reporting Taxonomy (collectively referred to as "GAAP Taxonomy"). Those improvements, which will be included in the proposed 2024 GAAP Taxonomy, are available for public comment. For more information, see the [Improvements](#) provided at [www.fair.org](#) during the public comment release process.

Amendments to the FASB Accounting Standards Codification®
Amendments to the GAAP Taxonomy

IFRS Accounting Taxonomy 2023

The IFRS Accounting Taxonomy 2023 reflects the presentation and disclosure requirements of the IFRS Accounting Standards as issued by the International Accounting Standards Board (IASB) at 1 January 2023, the IFRS for SMEs Accounting Standard as issued by the IASB in 2020, and the IFRS Accounting Standards Codification® issued by the Financial Accounting Standards Board.



- SASB XBRL Taxonomy – Version 2022-07-21 (Current)
- SASB XBRL Taxonomy – Version 2021-08-23 (Deprecated)
- Preparer Guide

- 120 - Schedule - Statement of Cash Flows - Sequence - Other Items for Investing Cash flows
- 120 - Schedule - Statement of Cash Flows - Sequence - Other Operating Cash flows
- 122 - Schedule - Notes to Financial Statements
- 122a - Schedule - Statement of Accumulated Other Comprehensive Income, Comprehensive Income, and Hedging Activities
- 200 - Schedule - Summary of Utility Plant and Accumulated Provisions for Depreciation, Amortization and Depletion
- 202 - Schedule - Nuclear Fuel Materials
- 204 - Schedule - Electric Plant In Service
 - Schedule Electric Plant in Service [Abstract]
 - Electric Plant in Service [Table]
 - Electric Plant in Service [Line Items]
 - 1. INTANGIBLE PLANT
 - 2. PRODUCTION PLANT
 - 3. Transmission Plant
 - (350) Land and Land Rights
 - (351) Energy Storage Equipment - Transmission
 - (352) Structures and Improvements

ELECTRIC PLANT IN SERVICE (Account 101, 102, 103, and 106)

1. Report below the original cost of electric plant in service according to the prescribed accounts.
2. In addition to Account 101, Electric Plant in Service (Classified), this page and the next include Account 102, Electric Plant Purchased or Sold; Account 103, Experimental Electric Plant Unclassified; and Account 106, Completed Construction Not Classified-Electric.
3. Include in column (c) or (d), as appropriate, corrections of additions and retirements for the current or preceding year.
4. For revisions to the amount of initial asset retirement costs capitalized, included by primary plant account, increases in column (c) additions and reductions in column (e) adjustments.
5. Enclose in parentheses credit adjustments of plant accounts to indicate the negative effect of such accounts.
6. Classify Account 106 according to prescribed accounts, on an estimated basis if necessary, and include the entries in column (c). Also to be included in column (c) are entries for reversals of tentative distributions of the prior year reported in column (b). Likewise, if the respondent has a significant amount of plant retirements which have not been classified to primary accounts at the end of the year, include in column (d) a tentative distribution of such retirements, on an estimated basis, with appropriate contra entry to the account for accumulated depreciation provision. Include also in column (d) distributions of these tentative classifications in columns (c) and (d), including the reversals of the prior years tentative account distributions of these amounts. Careful observance of the above instructions and the texts of Accounts 101 and 106 will avoid serious omissions of the reported amount of respondent's plant actually in service at end of year.
7. Show in column (f) classifications or transfers within utility plant accounts. Include also in column (f) the additions or reductions of primary account classifications arising from distribution of amounts initially recorded in Account 102, include in column (e) the amounts with respect to accumulated provision for depreciation, acquisition adjustments, etc., and show in column (f) only the offset to the debits or credits distributed in column (f) to primary account classifications.
8. Account 204 state the nature and use of plant included in this account and if substantial in amount submit a separate statement showing subaccount classification of such plant conforming to the requirement of these pages.

47	3. Transmission Plant								
48	(350) Land and Land Rights								
48.1	(351) Energy Storage Equipment - Transmission								
49	(352) Structures and Improvements								
50	(353) Station Equipment								
51	(354) Towers and Fixtures								
52	(355) Poles and Fixtures								
53	(356) Overhead Conductors and Devices								
54	(357) Underground Conduit								
55	(358) Underground Conductors and Devices								
56	(359) Roads and Trails								
57	(359.1) Asset Retirement Costs for Transmission Plant								
58	TOTAL Transmission Plant (Enter Total of lines 48 thru 57)								


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- 120 - Schedule - Statement of Cash Flows - Sequence - Other Items for Investing Cash flows
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 - 1. INTANGIBLE PLANT
 - 2. PRODUCTION PLANT
 - 3. Transmission Plant
 - (350) Land and Land Rights
 - (351) Energy Storage Equipment - Transmission
 - Energy Storage Equipment - Transmission, Balance at Beginning of Year
 - Energy Storage Equipment - Transmission, Additions
 - Energy Storage Equipment - Transmission, Retirements
 - Energy Storage Equipment - Transmission, Adjustments
 - Energy Storage Equipment - Transmission, Transfers
 - Energy Storage Equipment - Transmission, Balance at End of Year
 - (352) Structures and Improvements
 - (359) Roads and Trails
 - (359.1) Asset Retirement Costs for Transmission Plant
 - TOTAL Transmission Plant (Enter Total of lines 48 thru 57)
 - 4. Distribution Plant
 - 5. REGIONAL TRANSMISSION AND MARKET OPERATION PLANT
 - 6. General Plant
 - TOTAL (Accounts 101 and 106)
 - (102) Electric Plant Purchased (See Instr. 8)
 - (Less) (102) Electric Plant Sold (See Instr. 8)
 - (103) Experimental Plant Unclassified
 - TOTAL Electric Plant in Service (Enter Total of lines 100 thru 103)
- 213 - Schedule - Electric Plant Leased To Others
- 213 - Schedule - Electric Plant Leased To Others - Totals
- 214 - Schedule - Electric Plant Held for Future Use
- 214 - Schedule - Electric Plant Held for Future Use - Totals



120 - Schedule - Statement of Cash Flows - Sequence - Other Items for Investing Cash Flows

120 - Schedule - Statement of Cash Flows - Sequence - Other Operating Cash Flows

47	3. Transmission Plant			
48	(350) Land and Land Rights			
48.1	(351) Energy Storage Equipment - Transmission			
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55	(358) Underground Conductors and Devices			
56	(359) Roads and Trails			
57	(359.1) Asset Retirement Costs for Transmission Plant			
58	TOTAL Transmission Plant (Enter Total of lines 48 thru 57)			

...ome, and Hedging Activit
...ation and Depletion

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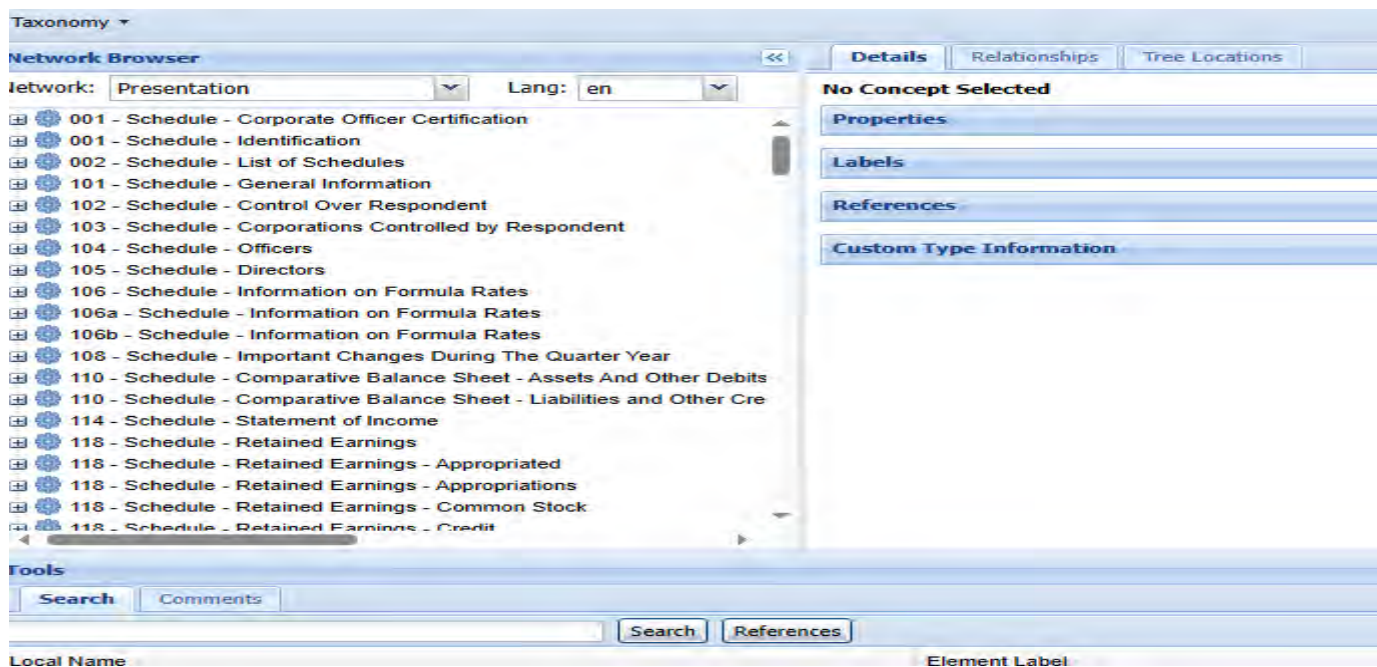
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- ⊕ (103) Experimental Plant Unclassified
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- ⊕ 213 - Schedule - Electric Plant Leased To Others
- ⊕ 213 - Schedule - Electric Plant Leased To Others - Totals
- ⊕ 214 - Schedule - Electric Plant Held for Future Use
- ⊕ 214 - Schedule - Electric Plant Held for Future Use - Totals


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CALIFORNIA WATER SERVICE GROUP
CONDENSED CONSOLIDATED STATEMENTS OF INCOME

Unaudited (In thousands, except per share data)

For the three months ended	June 30, 2020	June 30, 2019
Operating revenue	\$ 175,484	\$ 179,031
Operating expenses:		
Operations:		
Water production costs	71,142	64,635
Administrative and general	26,939	25,434
Other operations	25,898	22,542
Maintenance	6,722	5,692
Depreciation and amortization	24,542	22,326
Income taxes	622	4,321
Property and other taxes	7,126	7,068
Total operating expenses	162,991	152,018
Net operating income	12,493	27,013
Other income and expenses:		
Non-regulated revenue	4,208	5,130
Non-regulated expenses	(492)	(3,900)
Other components of net periodic benefit cost	(1,332)	(1,192)
Allowance for equity funds used during construction	1,705	1,686
Income tax expense on other income and expenses	(820)	(48)
Net other income	3,269	1,237

CALIFORNIA WATER SERVICE GROUP
CONDENSED CONSOLIDATED STATEMENTS OF INCOME
 Unaudited (In thousands, except per share data)

For the three months ended

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Allowance for equity funds used during construction	1,705	1,686
Income tax expense on other income and expenses	(820)	(48)
Net other income	3,269	1,237

Calculation

Utilities Operating Expense, Products and Services

Balance Debit

Section 1003004 - Statement -
 CONDENSED CONSOLIDATED
 STATEMENTS OF (LOSS) INCOME

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A Quick Recap

- We know what XBRL is,
- We know basically who uses it
- We *kind of* know how it operates, ...
kind of...
- BUT the big question is:

How do we get
to all that data?



Tools for accessing FERC XBRL Data

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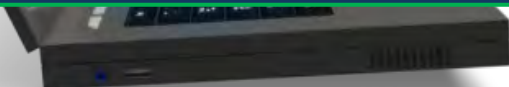
Submission History

x Clear All

x Company

x Form

CID	Company	Form	Year	Period	Date/Time	Status	Filing ID
C000379	Avista Corpo...	Form 1	2022	Q4	4/18/2023, 5...	Accepted	110188
C000379	Avista Corpo...	Form 1	2021	Q4	4/15/2022, 4...	Accepted	79668
C000379	Avista Corpo...	Form 1	2020	Q4	4/15/2021, 1...	Migrated	47371
C000379	Avista Corpo...	Form 1	2019	Q4	4/15/2020, 3...	Migrated	46537
C000379	Avista Corpo...	Form 1	2018	Q4	4/15/2019, 4...	Migrated	45740
C000379	Avista Corpo...	Form 1	2017	Q4	4/11/2018, 2...	Migrated	44894
C000379	Avista Corpo...	Form 1	2016	Q4	3/31/2017, 1...	Migrated	44028
C000379	Avista Corpo...	Form 1	2015	Q4	4/15/2016, 2...	Migrated	43350
C000379	Avista Corpo...	Form 1	2014	Q4	4/15/2015, 4...	Migrated	42581
C000379	Avista Corpo...	Form 1	2013	Q4	4/11/2014, 1...	Migrated	41689





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Filing Description for Accession Number 20230418-8113

Avista Corporation submits FERC Form 1 report for 2022/Q4



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Rows Per Page: 100

1 - 1 of 1



Large Format * > 10 MB

Zipped 0 MB
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Filename	Description	File Type	File Size * > 10 MB	Security Level
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Release: 07/07/2023

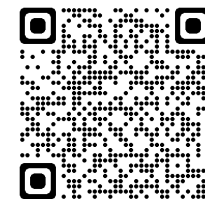
For any issues regarding FERC Online, please contact ferconlinesupport@ferc.gov or call 866-208-3676. Please include a current mail address, telephone number, and email address.



SEC Website

The SEC provides an “inline XBRL viewer” for reports filed with it. By placing the company name in the search, 10k information can be retrieved along with other SEC filings!

<https://www.sec.gov/edgar/searchedgar/companysearch>



UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 10-K

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

Entity Registrant Name

PORTLAND GENERAL ELECTRIC COMPANY

12 months ending 12/31/2022

Click for additional information.

PORTLAND GENERAL ELECTRIC COMPANY

(Exact name of registrant as specified in its charter)

Oregon

(State or other jurisdiction of incorporation or organization)

93-0256820

(I.R.S. Employer Identification No.)

121 S W Salmon Street

API

Application Programming Interface

Accessing XBRL formatted data can be a challenge without the right tools.

The most common request is to upload FERC annual report data to Excel or Google Sheet.

To populate data into your spreadsheet an add-in (an API) is required.

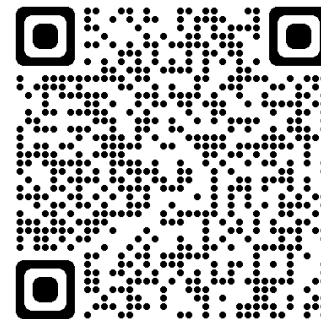
API stands for Application Programming Interface. APIs provide a path for two computer programs to communicate.



XBRL-US Website

XBRL US is working hard to support the creation of APIs that allow access to XBRL files from FERC to the SEC. We will look at two that were designed for FERC XBRL Annual reports.

<https://xbrl.us/home/use/xbrl-api-community/>





Home > Using Data >

XBRL Data

This community helps professionals connect with staff and community

Get a Taste.

Login and take a look at **the last 12 times** **sources we monitor**. The browser view of worry, we've got some data in ways that ma

Get Started.

Using the **XBRL Filed** get started creating Filings Database. Scroll other resources for u

XBRL Data Community

This community helps developers, analysts, and business intelligence professionals connect with and use the XBRL API, Public Filings Database, staff and community-sourced resources and tools more effectively.



Get a Taste.

Login and take a look at **the 10 most-recently filed reports and base taxonomy information** or **the last 12 times the concepts Assets and Liabilities appeared** in reports **from any XBRL sources we monitor** – currently SEC, FERC, and ESEF (new visitors might need to login twice). The browser view of these XBRL API queries is JSON format, so it might look messy – don't worry, we've got some free tools, templates and code samples below that can help get more data in ways that may be a bit easier to read.

Get Started.

Using the **XBRL Filed Data** extension for Google Sheets or Office 365 Excel is an easy way to get started creating queries and understanding how to use the XBRL API and our Public Filings Database. Scroll down for free spreadsheet templates you can customize, as well as other resources for using the XBRL API with programming languages like PHP, Python and R.

[Google Sheets Add-on](#)

[Excel Add-in \(O365\)](#)

[OAuth2 access](#)

Anyone can explore our Database with the XBRL API without cost or obligation. Most XBRL US Members enjoy **unlimited access and no quotas**. Consider **XBRL US Membership** options for yourself or your team.

Need help?

– Watch introductory videos for [Google Sheets Add-on](#) or [Excel](#).

USING DATA

[LOGIN](#)

[Filings](#)

[Community](#)

[Resources](#)

[Getting Resources](#)

[Tools](#)

[Data processor](#)

Help & Discussion

[Google Sheets](#) OR

[Microsoft Excel](#) OR

XBRL-US Website

File Home Insert Draw Page Layout Formulas Data Review View Developer Help Acrobat XBRL Filed Data

Clipboard Font Alignment Number Styles Cells Editing Add-ins Analyze Data Adobe Acrobat

fx =XBRL.showData("https://api.xbrl.us/api/v1/fact/search?report.source-name=ferc&report.document-type=1&report.id=570528&dts.id=577199&fact.has-dimensions=false&

concept.local-name	fact.value	period.fis	period.fiscal-year
AmortizationOfLossOnReacquiredDebt	1,433,640	Y	2022
SteamPowerGenerationMaintenanceExpense	9,868,647	Y	2022
TransportationEquipment	59,454,054	Y	2022
CustomerInstallationsExpenses	730,717	Y	2021
DuplicateChargesCredit	-	Y	2021
MaintenanceOfOverheadLinesTransmission	1,951,772	Y	2021
UndergroundConductorsAndDevicesDistributionPlantRetirements	214,757	Y	2022
WaterWheelsTurbinesAndGeneratorsHydraulicProductionRetirements	14,931	Y	2022
NetIncreaseInShortTermDebt	82,000,000	Y	2021
OverheadLineExpenses	2,986,138	Y	2021
KilowattHoursOfSalesPerCustomerLargeOrIndustrialSales	1,785,507	Y	2022
RentsSteamPowerGeneration	-	Y	2021
NumberOfTransmissionCircuits	44	Y	2022
IncomeTaxesExtraordinaryItems	-	Y	2022
MegawattHoursSoldInterdepartmentalSales	14,388	Y	2022
TaxAdjustments	1,822,692	Y	2022
AddressOfPrincipalOfficeAtEndOfPeriod	1411 East Mission	Y	2022
AmortizationOfPremiumOnDebtCredit	8,883	Y	2022
AdjustmentsToRetainedEarnings	-	Y	2022
StructuresAndImprovementsSteamProduction	141,207,434	Y	2021
AccessoryElectricEquipmentSteamProduction	31,404,591	Y	2021
OtherIncome	33,041,559	Y	2022
CashProvidedRvOutsideSources	716.634.394	Y	2022

XBRL Filed Data

Query Validate

Data Offset

Fields to Return

- concept.local-name
- fact.value
- period.fiscal-period
- period.fiscal-year

Function + Data Data Query SQL

Unique

Get

XBRL API endpoints: Logout

Fact - filed facts and

Home > Using Data >

LOGIN

XBRL Data Community

This community helps developers, analysts, and business intelligence professionals connect with each other and with the staff and community-s...

Get a Taste.

Login and take a look at our [the last 12 times the sources we monitor](#) -

The browser view of the data can be a bit overwhelming. Don't worry, we've got some free tools, templates and code samples below that can help get more data in ways that may be a bit easier to read.

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EXCEL TEMPLATE

OAuth2 access

GOOGLE SHEETS

updated Jun 17, 2023

FERC Schedule Compare and Report Template for Excel Office 365 (.zip download) or Google Sheets

Get a side-by-side comparison of FERC Schedule data – including dimensions – for multiple companies, a pivot table display of the schedule detail for improved readability, or XBRL US Members can get a full report for a public utility using the cube endpoint for the hypercube of facts and taxonomy details.

Using Data

[XULE, an open-source processor](#)
[Updates](#)

Documentation & Discussion

[Get started with Google Sheets](#) OR
[Get started with Microsoft Excel](#) OR

XBRL US Website

File Home Insert Draw Page Layout Formulas Data Review View Developer Help Acrobat XBRL Filed Data

Clipboard Font Alignment Number Styles Cells Editing Add-ins Analyze Data Adobe Acrobat

A104 : =IF(ISBLANK(F104),"",LOOKUP(F104,\$Q\$4:\$Q\$31,\$R\$4:\$R\$31))

This template can display a **single FERC schedule from multiple reports** for XBRL US Power User and Organizational Members. To use this template, **clear all report IDs from I1 and I2, then select the "fact" function on the XBRL Filed Data add-in**, set the Filter by Source and Document Type fields as needed, then start typing the name of a FERC-filing entity in the "Select Report by Entity Name" field. Select the report from the list, then **copy and paste its value into cell I1**. Set the Schedule with the drop down in I3, then add more FERC filers (with the same form type) in cell I2 as a comma-separated list, using the same process as the report ID added in I1.

589989 << Report ID
590235,590229,589443 << Other IDs
114 - Schedule - Statement of Income << Schedule
Delmarva Power & Light Company Form 1/3-Q (Q1) for the period ending 2023-03-31; filed 2023-03-31
[Download report as HTML](#)

Company (no sort; filter only)	Label (taxonomy concept - no sort; filter only)	fact.value	unit	period.fiscal	period	cube.primary-local-name	dimension
The Potomac Edison Company	Depreciation Expense for Asset Retirement Costs (403.1 92		USD	2023	1Q	DepreciationExpenseForAssetRetir	0
The Potomac Edison Company	Depreciation Expense for Asset Retirement Costs (403.1 92		USD	2023	1Q	DepreciationExpenseForAssetRetir	1
MidAmerican Energy Company	Depreciation Expense for Asset Retirement Costs (403.1 15901045		USD	2023	1Q	DepreciationExpenseForAssetRetir	0
MidAmerican Energy Company	Depreciation Expense for Asset Retirement Costs (403.1 15901045		USD	2023	1Q	DepreciationExpenseForAssetRetir	1
MidAmerican Energy Company	Depreciation Expense for Asset Retirement Costs (403.1 18535377		USD	2022	1Q	DepreciationExpenseForAssetRetir	1
The Potomac Edison Company	Depreciation Expense for Asset Retirement Costs (403.1 92		USD	2022	1Q	DepreciationExpenseForAssetRetir	1
MidAmerican Energy Company	Depreciation Expense for Asset Retirement Costs (403.1 18535377		USD	2022	1Q	DepreciationExpenseForAssetRetir	0
The Potomac Edison Company	Depreciation Expense for Asset Retirement Costs (403.1 92		USD	2022	1Q	DepreciationExpenseForAssetRetir	0
Consolidated Edison Company of New York	Amort. & Depl. of Utility Plant (404-405)	14317638	USD	2023	1Q	AmortizationAndDepletionOfUtilit	1
The Potomac Edison Company	Amort. & Depl. of Utility Plant (404-405)	1128509	USD	2023	1Q	AmortizationAndDepletionOfUtilit	0
Delmarva Power & Light Company	Amort. & Depl. of Utility Plant (404-405)	659771	USD	2023	1Q	AmortizationAndDepletionOfUtilit	1
The Potomac Edison Company	Amort. & Depl. of Utility Plant (404-405)	1128509	USD	2023	1Q	AmortizationAndDepletionOfUtilit	1

ScheduleCompare SchedulePivot SingleReport Labels Label-Generator

XBRL FISC Website

File Home Insert Draw Page Layout Formulas Data Review View Developer Help Acrobat XBRL Filed Data Comments Share

Clipboard Font Alignment Number Styles Cells Editing Add-ins Adobe Acrobat

Calibri 11 A A B I U Font Color Background Color Conditional Formatting Insert Delete Format Cell Styles Format as Table Cell Styles Add-ins Editing Add-ins

This template displays a single FERC report for XBRL US Power User and Organizational Members. To use this template, select the "fact" function on the XBRL Filed Data add-in, set

A	B	I	J	K	L	M
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This template displays a **single FERC report** for XBRL US Power User and Organizational Members. To use this template, **select the "fact" function on the XBRL Filed Data add-in**, set the Filter by Source and Document Type fields as needed, then start typing the name of a FERC-filing entity in the **"Select Report by Entity Name"** field, select the entity from the list, then **copy and paste the value into cell I1**. Use the filters on row 6 to further refine data from the report.

593527 << Report ID

<< Schedule [https://api.xbrl.us/api/v1/cube/search?report.id=593527&ultimus=true&fields=report.id,cube.description.sort\(ASC\)&sequence.sort\(ASC\),fact.value,unit,period.fiscal-year.sort\(ASC\)&period,cube.primary-local-name,dimensions.count,dimensions](https://api.xbrl.us/api/v1/cube/search?report.id=593527&ultimus=true&fields=report.id,cube.description.sort(ASC)&sequence.sort(ASC),fact.value,unit,period.fiscal-year.sort(ASC)&period,cube.primary-local-name,dimensions.count,dimensions)

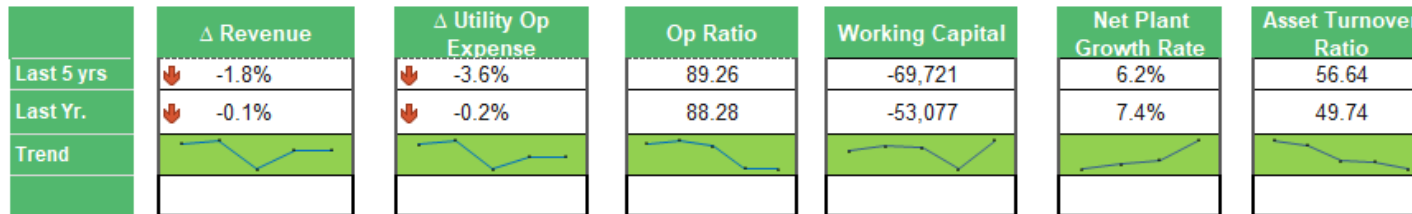
Thunder Creek NGL Pipeline, LLC Form 6-Q (Q1) for the period ending 2023-03-31; filed 2023-03-31

[Download report as HTML](#)

Company (no sort; filter only)	Label (taxonomy concept - no sort; filter only)	fact.value	unit	period.fiscal	peri	cube.primary-local-name
001 - Schedule - Annual Corporate Officer Cε01 Name		Andy Siegel		2023	1Q	AttestationName
001 - Schedule - Annual Corporate Officer Cε02 Title		Vice President Accounting and Controller		2023	1Q	AttestationTitle
001 - Schedule - Annual Corporate Officer Cε03 Signature		Andy Siegel		2023	1Q	CorporateOfficerCertificationSigna
001 - Schedule - Annual Corporate Officer Cε04 Date Signed (Mo, Da, Yr)		2023-06-01		2023	1Q	AttestationDate
001 - Schedule - Identification	Form Type	6-Q		2023	1Q	FormType
001 - Schedule - Identification	01 Exact Legal Name of Respondent	Thunder Creek NGL Pipeline, LLC		2023	1Q	RespondentLegalName
001 - Schedule - Identification	Company Identifier (CID)	C004649		2023	1Q	CompanyIdentifier
001 - Schedule - Identification	Report Year	2023	pure	2023	1Q	ReportYear
001 - Schedule - Identification	Report Period	Q1		2023	1Q	ReportPeriod
001 - Schedule - Identification	Previous Name	N/A		2023	1Q	PreviousName
001 - Schedule - Identification	04 Address of Principal Office at End of Year (Street, Cit	1331 17th Street, Suite 1100, Denver, CO 802		2023	1Q	AddressOfPrincipalOfficeAtEndOfP
001 - Schedule - Identification	05 Name of Contact Person	Andy Siegel		2023	1Q	NameOfContactPerson
001 - Schedule - Identification	06 Title of Contact Person	Vice President Accounting and Controller		2023	1Q	TitleOfContactPerson
001 - Schedule - Identification	07 Address of Contact Person (Street, City, State, Zip Co	1331 17th Street, Suite 1100, Denver, CO 802		2023	1Q	AddressOfContactPerson
001 - Schedule - Identification	08 Telephone of Contact Person, Including Area Code	303-296-5350		2023	1Q	TelephoneOfContactPerson

SingleReport

Avista Corporation Financial Benchmarks



	(a)	(b)	(c)	(d)	(e)	(f)
	Revenue	Utility Op Expense	Op Ratio	Current Assets	Current Liabilities	Working Capital
2017	1,602,043,842	1,439,975,392	89.884	293,497,874	362,989,647	(69,492)
2018	1,617,162,384	1,456,974,449	90.095	270,636,633	333,434,461	(62,798)
2019	1,494,227,540	1,340,800,457	89.732	234,673,968	299,188,386	(64,514)
2020	1,574,987,368	1,391,029,230	88.320	286,236,661	384,958,898	(98,722)
2021	1,572,976,141	1,388,579,712	88.277	268,614,596	321,691,142	(53,077)
2022						
Ref	114-2	114-25	(b)/(a)	111-67	113-54	((d)-(e))/1,000
Δ Last 5 yrs	-2%	-4%	89.261			(69,721)

	(g)	(h)	(i)	(j)	(k)
	Total Utility Plant	Acc Depr.	Net Plant	NP Growth Rate	Asset Turnover Ratio
2017	3,768,607,461	1,284,830,029	2,483,777,432		0.65
2018	3,955,107,069	1,333,212,160	2,621,894,909	5.56%	0.62
2019	4,183,698,822	1,408,153,972	2,775,544,850	5.86%	0.54
2020	4,437,264,301	1,491,212,830	2,946,051,471	6.14%	0.53
2021	4,736,479,217	1,573,767,832	3,162,711,385	7.35%	0.50
2022					
Ref	110-4	110-5	(g)-(h)		(a)/(i)
Δ Last 5 yrs			27%	6.23%	0.57

understand

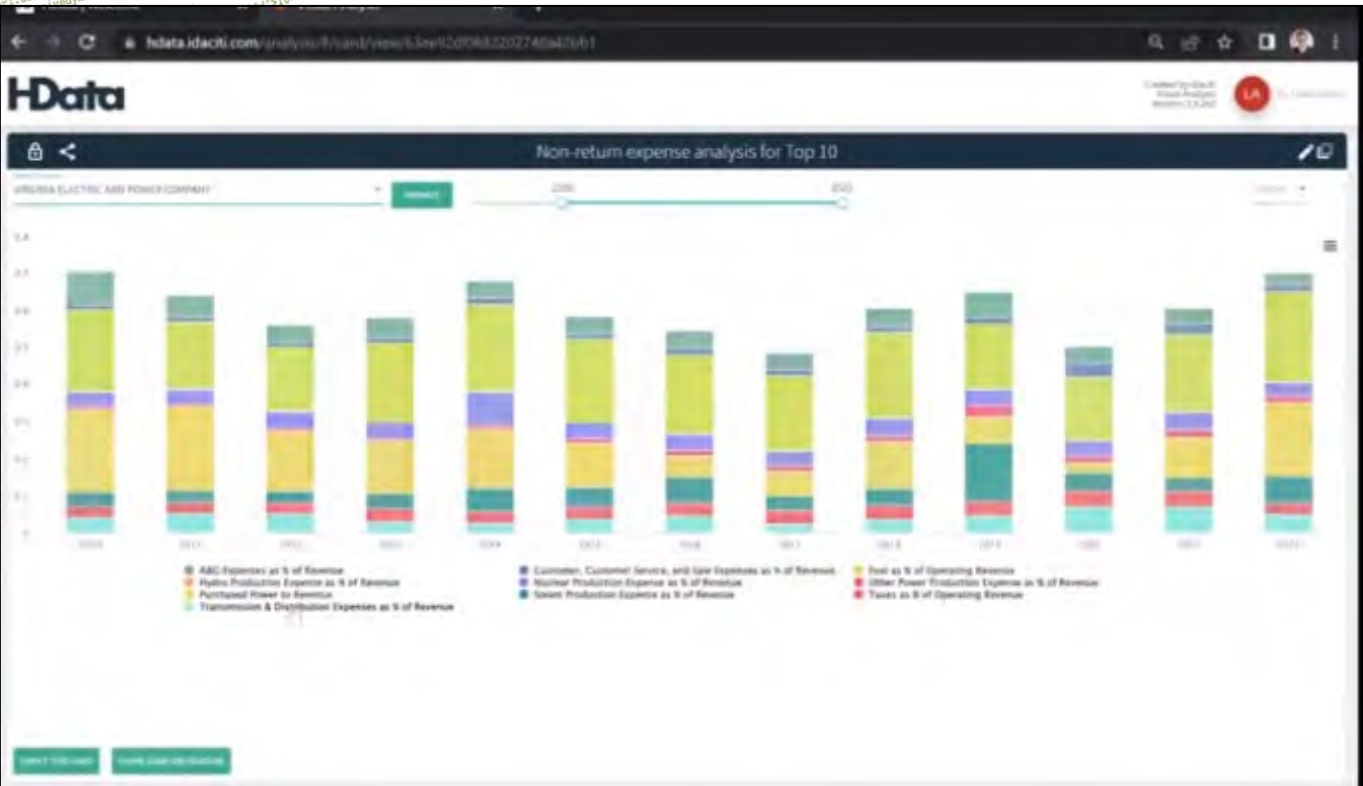
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XBRL- 3rd party vendors

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<link:schema href="http://www.xbrl.org/2003/instance"
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expensive. Possible steep learning curve. HOWEVER, long term cost savings can maximize the benefits of XBRL data.

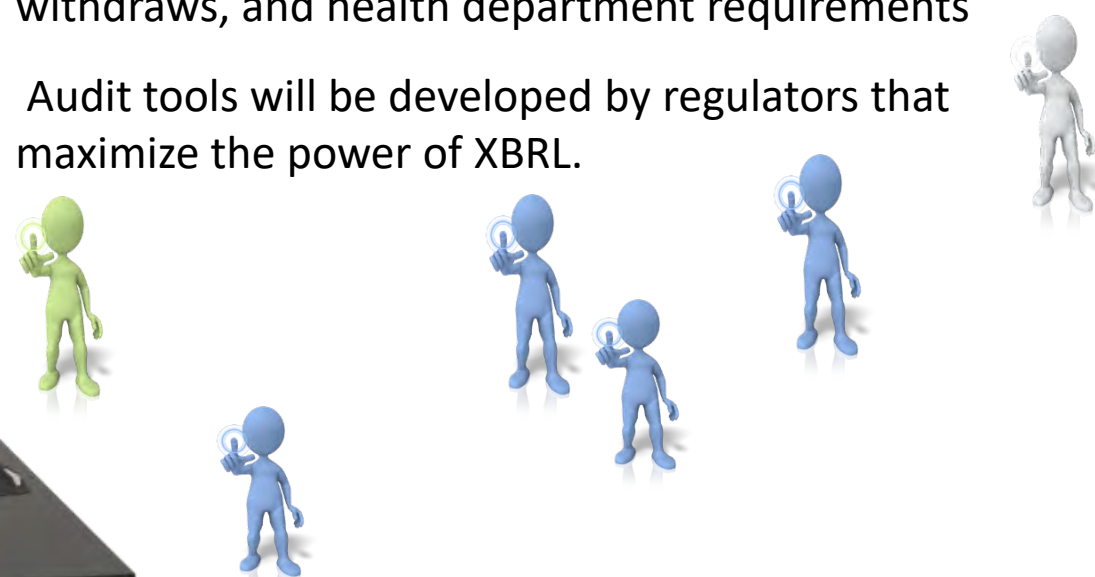


Within Five Years I'm Predicting:

- ❑ The FERC XBRL taxonomy will be extended to allow companies to file individual state annual reports.
- ❑ A single water-company taxonomy will be developed to support not only economic oversight but also SRF loans and grants, water withdraws, and health department requirements
- ❑ Audit tools will be developed by regulators that maximize the power of XBRL.

```

<?xml version="1.0" encoding="UTF-8"?>
<xbrli:xbrl xmlns:isrt="http://www.xbrl.org/inlineXBRL/transformation/2010-04-20"
  xmlns:xbrli="http://www.xbrl.org/2003/instance"
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  xmlns:xlink="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:isoi4217="http://www.xbrl.org/2003/iso4217"
  xmlns:isoi4217="http://www.xbrl.org/2005/xbrldt"
  xmlns:xbrldt="http://xbrl.org/2005/xbrldt"
  xmlns:xbrldt="http://xbrl.us/us-gaap/2009-01-31"
  xmlns:xbrldt="http://xbrl.us/us-types/2009-01-31"
  xmlns:us-gaap="http://xbrl.us/dei/2009-01-31"
  xmlns:us-types="http://xbrl.us/dei/2009-01-31"
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  xmlns:masd="http://www.massivedynamic.com/20101231"
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  xlink:type="simple"
  xlink:href="masd-20101231.xsd"
  xlink:arcrole="http://www.xbrl.org/2009-01-31" contextRef="fy10d">10"
  xlink:arcrole="http://xbrl.us/dei/2009-01-31"
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    K</dei:DocumentType>
    <dei:DocumentPeriodEndDate xmlns:dei="http://xbrl.us/dei/2009-01-31"
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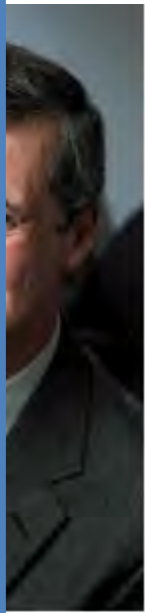


“XBRL gives regulators the opportunity to change the current reactive regulatory paradigm into one of truly proactive regulatory oversight.”



.../transformation/2010-04-20"

However, these same agencies will spend little time exploring new emerging regulatory techniques or oversight tools. Instead regulators routinely accept a regulated entity's proposed 'best practices' while spending little or no time developing their own. This regulatory 'tunnel vision' results in agencies overlooking exciting new tools such as eXtensible Business Reporting Language (XBRL), that if implemented correctly, could provide significant increases in staff productivity, resulting in more streamlined, transparent and successful regulation. Anyone that has seen XBRL feeding into a predesigned spreadsheet, precisely and accurately, magically populating its cells with relevant tagged data, knows that XBRL is the future, and, to use an overworked cliché, the



INTERACTIVE BUSINESS REPORTING Vol. 03 • Issue 02 • June 2013

XBRL
eXtensible Business Reporting Language

TRANSFORMING REGULATED INDUSTRIES

By **DANNY KERMODE CPA**,
Senior Policy Advisor Washington Utilities
and Transportation Commission

IN THESE TIMES WHERE GOVERNMENTS ARE EXPERIENCING TIGHT BUDGETS, IT IS NOT SURPRISING THAT REGULATORY AGENCIES ARE FOCUSING THEIR LIMITED RESOURCES ALMOST EXCLUSIVELY ON THEIR STATUTORY DUTIES. WITH ANY REMAINING RESOURCES, THEY MAY ATTEMPT TO EVALUATE EMERGING REGULATORY, ACCOUNTING OR TAX ISSUES.

future is now. Although there are other regulated industries, such as the insurance industry, that have been active in the XBRL arena developing their own Generally Accepted Accounting Principles (GAAP)-based taxonomy, they appear more as exceptions than the rule.

Regulatory authorities in every country from North America to Europe appear to have some form of this 'tunnel vision'. Surprisingly, even in countries that are traditionally considered leaders in eXtensible Markup Language (XML)-based data reporting, regulatory agencies are failing to see that regulation is in a period of rapid transformation. Early adopters of new technologies and oversight tools will have a unique window of opportunity.

TRIES

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COREFLING:
INLINE XBRL –
A GROWING
CONSENSUS

PAGE XX
TRINTECH:
INHOUSE XBRL

XBRL Vol. 03 • Issue 02 • June 2013



June 2013

PUBLIC UTILITIES FORTNIGHTLY

The Sustainable Resilient Affordable Debates

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Fortnightly Top Innovators 2019

Danny Kermode, Washington Utilities and Transportation Commission

Recognizing the growing gap between technology and the tools used for regulatory oversight, he became a leading advocate for the national initiative to move to structured data for collection and analysis of regulated utilities information. Structured data is a new tool that allows regulatory analysts to begin their work right away instead of spending considerable time inputting and correcting data. This has been adopted by FERC as a national standard for utility reporting in Order No. 859. **See the article by Kermode in October 2019's PUF.**

```
<?xml version="1.0" encoding="UTF-8"?>
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  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
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  xmlns:us-gaap="http://xbrl.us/us-gaap/2009-01"
  xmlns:us-types="http://xbrl.us/dei/2009-01-31"
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  xlink:role="http://xbrl.us/dei/2009-01-31"
  <dei:DocumentType xmlns:dei="http://xbrl.us/dei"
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  <dei:EntityCurrentReportingStatus xmlns:dei="http://xbrl.us/dei"
  contextRef="fy10d">Yes</dei:EntityCurrentReportingStatus>
  <dei:EntityFilerCategory xmlns:dei="http://xbrl.us/dei"
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  <dei:EntityPublicPlot xmlns:dei="http://xbrl.us/dei"
  contextRef="fy10d">Large Accelerated Filer</dei:EntityPublicPlot>
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  contextRef="fy10d">2010-12-31</dei:EntityMeasurementDate>
  unitRef="USD"
  decimals="0">1497693860
```

Questions / Comments?



Everyone!!
Thank you for your attention!



