

# XBRL and EQR

*September 23, 2020*



# What is the XBRL Standard?

- XBRL is open and freely available
- Nonproprietary
- Widely used globally
- Innovative, supported by robust international community of accountants, technologists, data and application providers, issuers, and investors
- Easier, less costly, more accurate, when updating reporting requirements

# Why use XBRL-CSV?

- Supports schema and rule validation of CSV files
- XBRL is a standard used by major regulators
- CSV is also used by most major regulators
- As a standard filers can use the same software they use for other XBRL submissions
- Easier to create than XML files.
- Smaller file size than XML files.
- XBRL CSV formats can be easily changed or amended
- EQR data is most efficiently represented as CSV

# XBRL–CSV vs. CSV

- XBRL – CSV is mapped to a standard data model called a taxonomy
- XBRL – CSV can be validated prior to submission
- XBRL – CSV can be split over multiple files
- XBRL – CSV can be generated using standard desktop tools such as spreadsheets.

# What is the Taxonomy?

- Digital “dictionary” of concepts representing data needed to be reported
- Contains structure to explain relationships between concepts
  - Presentation (hierarchy)
  - Calculations ( $A + B = C$ )
  - Definition
  - References (authoritative)
  - Labels (standard, abbreviated, preferred, start and end of period)
- Able to represent all types of data (monetary, integer, percent, string, text block, enumerated lists, area, volume, energy)

# Why is a standard better?

- XBRL is self-describing (All data required is defined in the taxonomy)
- Drives data requirements – all stakeholders speak the same language
- Data collector only need to update the taxonomy when there are changes in reporting requirements
  - Users don't need to read documents and interpret meanings.
- Utilizes competitive marketplace to build tools which keeps costs low for all
- Allows for the creation and use of a single set of business rules to check data to keep data quality high and easier to check.

# Data Usage

- Resulting data is available via widely available analytical tools
- The data model is explicit and is machine readable for data users
- Data quality is better and thus data is more reliable for users
- Standard API's can be used to access the data
- Data will be available to a wider audience in a standardized vs customized format.

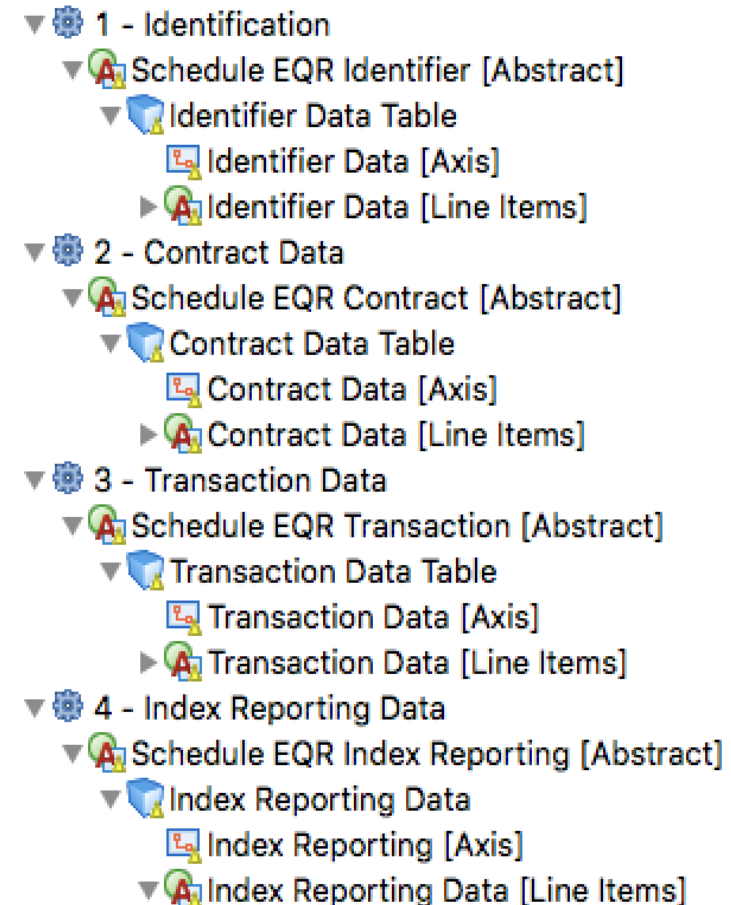
# Advantage of using XBRL-CSV for EQR?

- Allows filing in CSV as a spreadsheet or CSV files
- Allows validation prior to filing
- Can maintain an excel sheet which can be used to file
- Can split filing over multiple files to make individual files more manageable.
- Data schema is defined in an unambiguous machine-readable format that can be validated against.
- Can use standard and open source software tools.



# What would an EQR Taxonomy look like?

- Maintained by FERC
- Defines what is reported in an unambiguous manner
- Defines specifically how data is reported. i.e. date formats, enumerated values etc.
- Columns in CSV file are mapped to the taxonomy, so each CSV file just needs a standard header
- Allows rules based on the taxonomy



# What could the reported data look like?

## Transaction Information

transaction_unique_id	ferc_tariff_reference	contract_ser	tran	transaction_begin_date	transaction_end_date	trade_date	exch	type_of_rate	time_zone	point_of_d	point_of_d	class_name	term_nam	incre	incre	product_name	transaction_price	rate_units	standar	stand	total_t	total_trar	
T33358053	FERC Tariff No. 1		T1	2020-01-01T00:00:00	2020-01-01T00:05:00	2020-01-01		RTO/ISO	EP	NYIS		N/A	ST	5	OP	REGULATION & FREQUENCY RESPONSE	0.2333	3	\$/MWH			0	0.7
T33358054	FERC Tariff No. 1		T2	2020-01-01T00:05:00	2020-01-01T00:10:00	2020-01-01		RTO/ISO	EP	NYIS		N/A	ST	5	OP	REGULATION & FREQUENCY RESPONSE	0.3167	3	\$/MWH			0	0.95
T33358055	FERC Tariff No. 1		T3	2020-01-01T00:10:00	2020-01-01T00:15:00	2020-01-01		RTO/ISO	EP	NYIS		N/A	ST	5	OP	REGULATION & FREQUENCY RESPONSE	0.2583	3	\$/MWH			0	0.77
T33358056	FERC Tariff No. 1		T4	2020-01-01T00:15:00	2020-01-01T00:20:00	2020-01-01		RTO/ISO	EP	NYIS		N/A	ST	5	OP	REGULATION & FREQUENCY RESPONSE	0.2583	3	\$/MWH			0	0.77
T33358057	FERC Tariff No. 1		T5	2020-01-01T00:20:00	2020-01-01T00:25:00	2020-01-01		RTO/ISO	EP	NYIS		N/A	ST	5	OP	REGULATION & FREQUENCY RESPONSE	0.25	3	\$/MWH			0	0.75
T33358058	FERC Tariff No. 1		T6	2020-01-01T00:25:00	2020-01-01T00:30:00	2020-01-01		RTO/ISO	EP	NYIS		N/A	ST	5	OP	REGULATION & FREQUENCY RESPONSE	0.3083	3	\$/MWH			0	0.92
T33358059	FERC Tariff No. 1		T7	2020-01-01T00:30:00	2020-01-01T00:35:00	2020-01-01		RTO/ISO	EP	NYIS		N/A	ST	5	OP	REGULATION & FREQUENCY RESPONSE	0.4417	3	\$/MWH			0	1.33
T33358060	FERC Tariff No. 1		T8	2020-01-01T00:35:00	2020-01-01T00:40:00	2020-01-01		RTO/ISO	EP	NYIS		N/A	ST	5	OP	REGULATION & FREQUENCY RESPONSE	0.5417	3	\$/MWH			0	1.63
T33358061	FERC Tariff No. 1		T9	2020-01-01T00:40:00	2020-01-01T00:45:00	2020-01-01		RTO/ISO	EP	NYIS		N/A	ST	5	OP	REGULATION & FREQUENCY RESPONSE	0.5833	3	\$/MWH			0	1.75

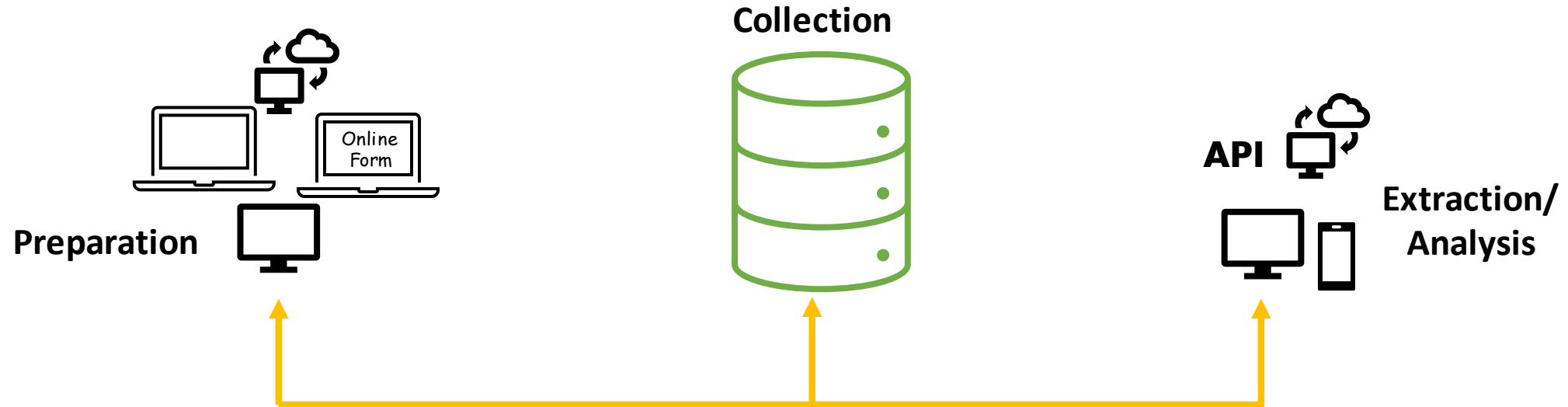
## Identifier Information

KCE\_2020\_Q1\_ident

filer_unique_id	company_name	company_identifier	contact_name	contact_title	contact_address	contact_city	conta	contact_zip	cor	contact_phone	contact_email	trans	filing_quarter
FA1						Philadelphia	PA	19102	US			N	202003
FS1						Albany	NY	12210	US			N	202003



# What is the Process for XBRL-CSV Collection



FERC manages the taxonomy and its data collection system, commercial/open source providers manage preparation and extraction tools.

**Taxonomy**

# How could this impact me as a filer?

- Minor changes in format used for dates
- Minor changes in Boolean formats
- Minor changes in date time format (Standard XML formats)
- Allows local validation of CSV files and easier identification of errors.
- No requirement to file in XML
- Ability to split filing over multiple files
- Don't need custom software to file

# Resources

- XBRL-CSV [Specification](#)
- XBRL US data [API](#)
- XBRL US Website <https://xbrl.us>
- XBRL International Specifications <https://specifications.xbrl.org/>

# Questions