

New Transmission – Cost Causation & Beneficiary Analysis

Ahmed Maria

Director – Transmission Planning, IESO

Outline

- Roles and Responsibilities within Ontario's Electricity Sector
- Transmission Planning in Ontario
- Cost Allocation and Example

Ontario's Electricity Sector Participants



Planning, Market & System Operation



Generation

ONTARIO POWER
GENERATION

Bruce Power[™]

& other generators

Regulation



Transmission

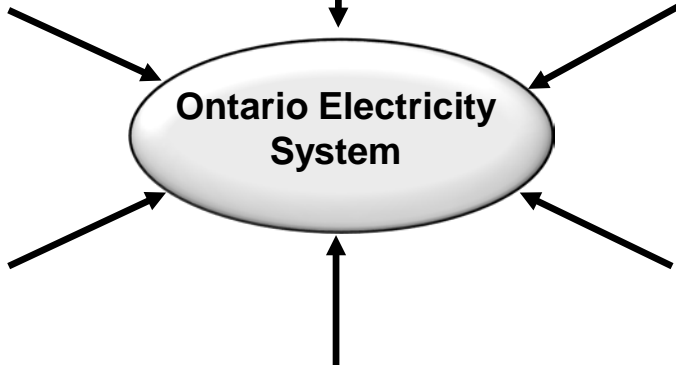


Five Nations & others

Distribution



Hydro One Distribution & other local distribution utilities



Customers



Residential

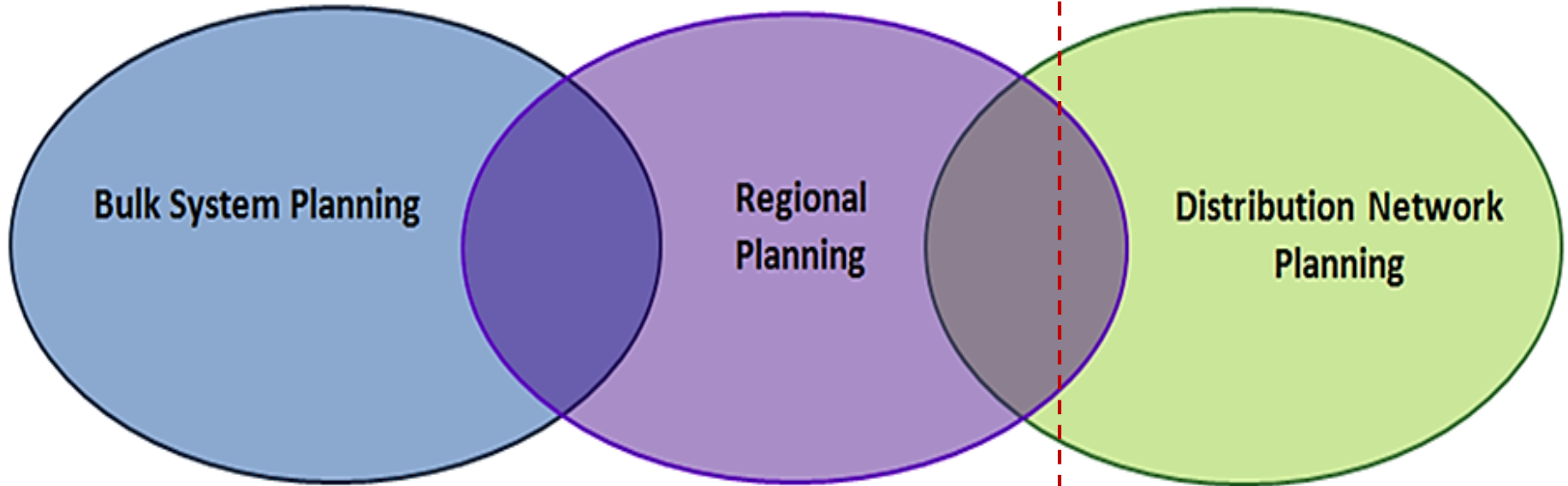


Commercial



Industrial

Planning Framework



Bulk System Planning

Addresses
provincial electricity
system needs and
policy directions

**Regional
Planning**

Through co-ordination
determines the least-cost solutions
that:
(1) meets the needs of all LDCs in
the region and provincial
needs
(2) considers non-wire
alternatives.

**Distribution Network
Planning**

Develops
distribution system
plans

IESO
Accountability

Cost Allocation

- **Asset Categories** – *Network Assets versus Connection Assets*
- **Three transmission rate pools** – *Network, Line Connection, Transformation Connection*
- **Costs are allocated depending on the purpose of the new transmission, which could include:**
 - Connecting new customers
 - Replacing facilities reaching end of life
 - Addressing provincial needs

Needs in the Windsor-Essex Region

1) *Local Need* - additional supply capacity in the Kingsville-Leamington area to supply forecast growth in electricity demand

2) *System Need* – additional load restoration capability in the region

