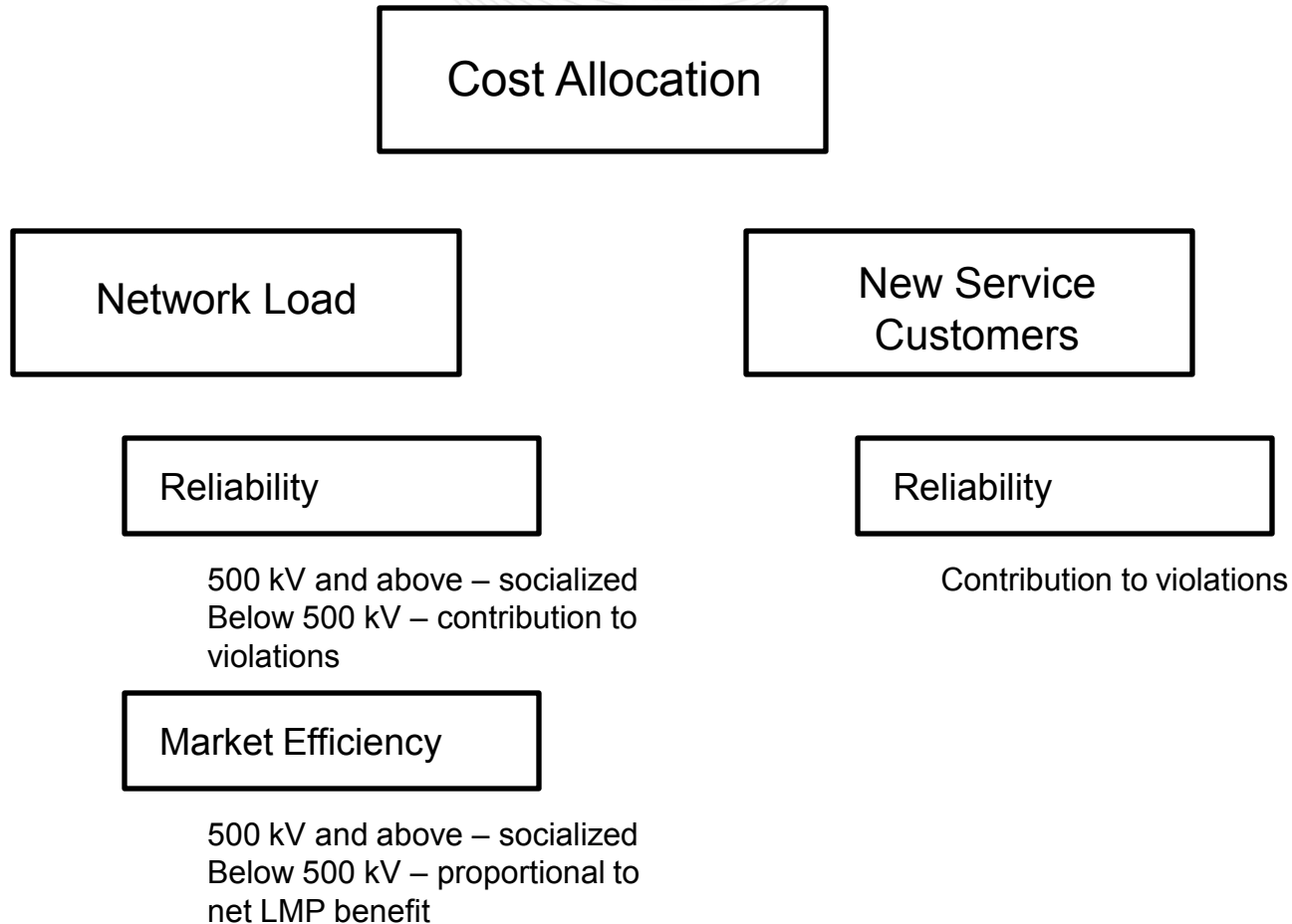


Cost Allocation

RPPTF
January 6, 2012
Steve Herling



Cost Allocation

Network Load

New Service Customers

Reliability

Reliability

→ Capacity Based

Market Efficiency

→ Energy Based

Public Policy Drivers

Renewable Delivery

Renewable Delivery

At-Risk Generation

Other ???

Other ???

Cost Allocation

Network Load

New Service Customers

Reliability

Reliability

→ Capacity Based

Market Efficiency

→ Energy Based

Renewable Delivery

Renewable Delivery

→ Primarily Energy Based
– Existing Interconnection Tests Will Not Likely Ensure Energy Delivery

At-Risk Generation

Other ???

Other ???

Public Policy Drivers

Cost Allocation

Network Load

New Service Customers

Reliability

Reliability

Capacity Based

Market Efficiency

Energy Based

Renewable Delivery

Renewable Delivery

At-Risk Generation

Primarily Capacity Based – Can Likely Be Integrated Into Reliability Analysis

Other ???

Other ???

Public Policy Drivers

- Based on zonal peak load during the 12 month period ending October of the previous year
- Re-allocated every year
- Pros
 - Simple to perform
 - Allows for annual re-allocation
 - Relatively stable over time
 - Provides a means to recognize less quantifiable benefits

- Cons
 - Not directly related to quantifiable benefits
- Alternatives
 - Non-coincident peak load (1 hour) – current process
 - Contribution to coincident peak load
 - Multiple peak hours
 - Total energy over year
 - Socialize only a portion of cost based on relative value of quantifiable and non-quantifiable benefits
 - Other ???

- Based on zonal contribution to criteria violation driving need for upgrade
 - Impact based on system without upgrade in service
- Allocated once at time of initial approval
- Considers all violations driving need for upgrade
- Impact based on DFAX from all generation to zonal load
 - Zonal imports limited based on CETO analysis
 - DFAX threshold of 0.001
 - Impact based on base case – no adjustments allowed
 - Considers all zones with adverse impacts

- Pros

- Parallels basis for justification for upgrade
- Can recognize multiple reliability drivers

- Cons

- Complex to perform
- Does not allow for annual re-allocation
 - No realistic way to unwind impact of multiple upgrades over time to reallocate
- Individual procedural assumptions/practices can significantly impact results
 - Implication DFAX sourcing as compared to reasonable zonal import levels – fixed with application of CETO approach
 - Low DFAX threshold results in unrealistic allocations in some cases

- Alternatives

- Adjust various elements of DFAX calculations
 - e.g., DFAX threshold
- Calculate use of upgraded facility
- Allocate only a portion of cost based on quantifiable benefits, i.e., impact to criteria violations
- Other ???

Cost Allocation

Network Load

Reliability

Market Efficiency

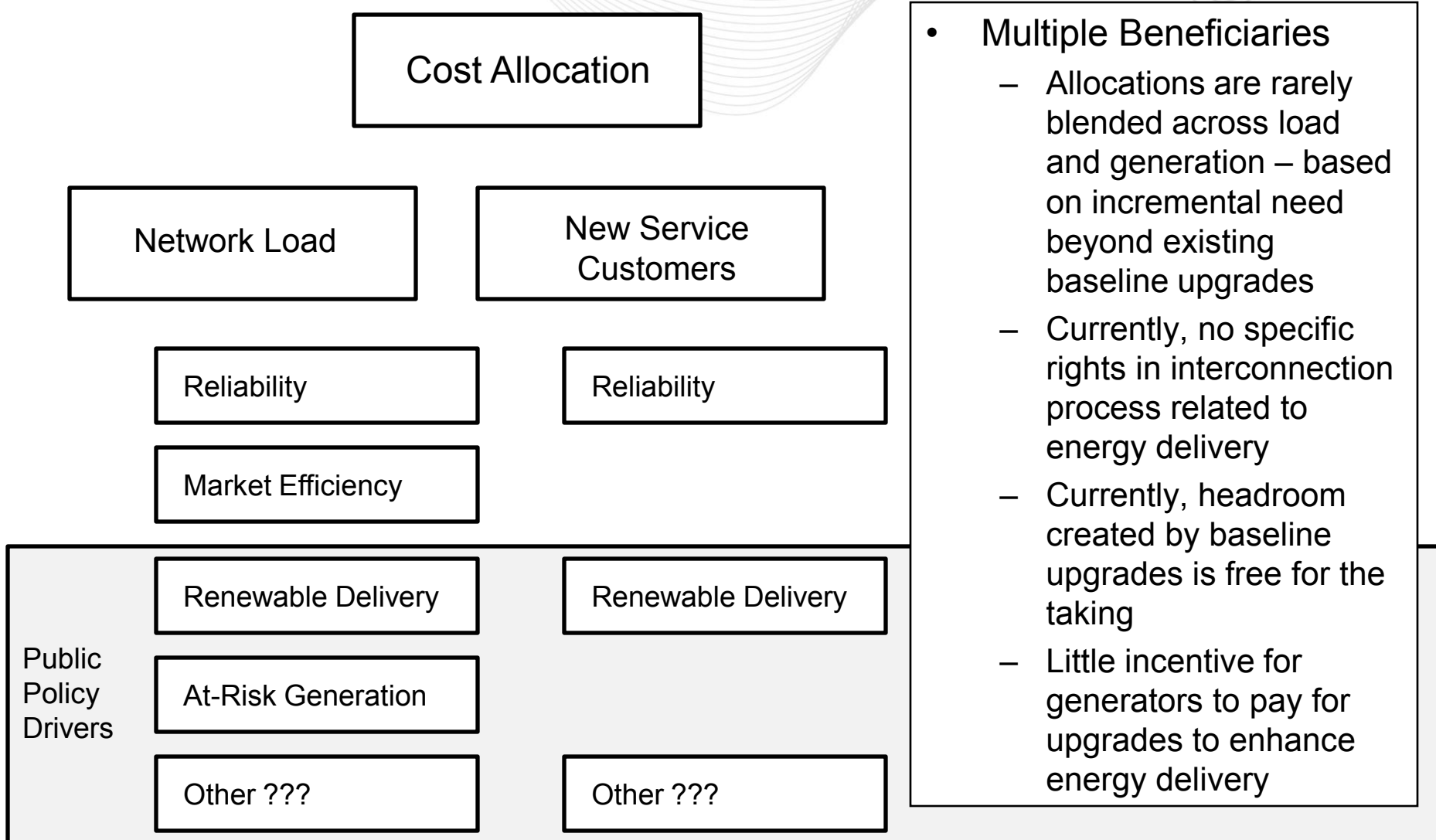
Renewable Delivery

At-Risk Generation

Other ???

Public
Policy
Drivers

- Multiple Drivers
 - Drivers are not directly comparable – benefits are not linearly additive
 - Relative valuation of benefits would be arbitrary
 - Could assign some portion of cost to non-quantifiable benefits, but would be arbitrary
 - Could value different benefits based on cost of upgrade related to only that driver
 - Could assign value first to reliability driver and incrementally to other drivers (current process with Market Efficiency)
 - Would require a lot of extra work that would serve only cost allocation



- Discuss keeping DFAX approach for reliability versus ??
 - Discuss possible changes to DFAX methodology
- Discuss alternatives to socialization for higher voltage facilities
- Discuss changes to Market Efficiency allocation methodology
- Discuss possible allocation methods for renewable delivery
- Discuss possible allocation methods for at-risk generation
 - Roll into reliability analysis??
- Discuss possible changes to but-for allocation for new service customers