



# Cost Offer Template

## November 2022 Update

David Kimmel

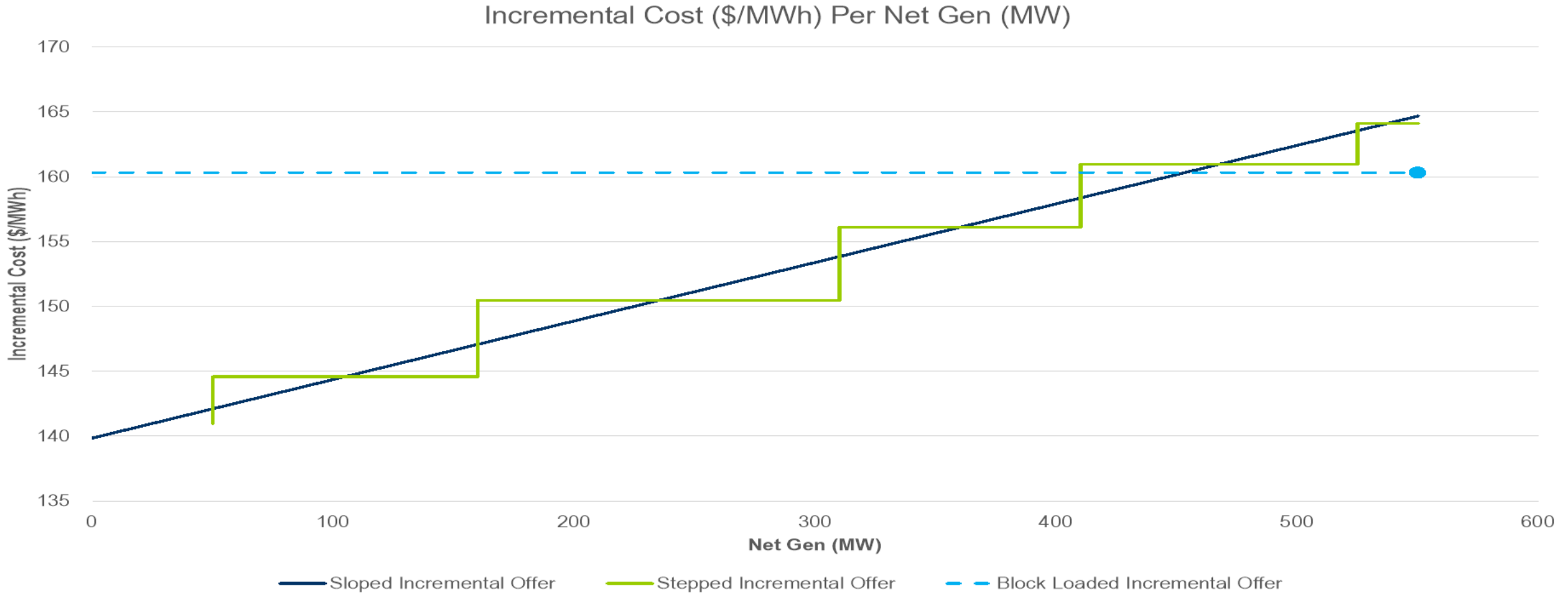
Senior Engineer, Performance Compliance

Cost Development Subcommittee

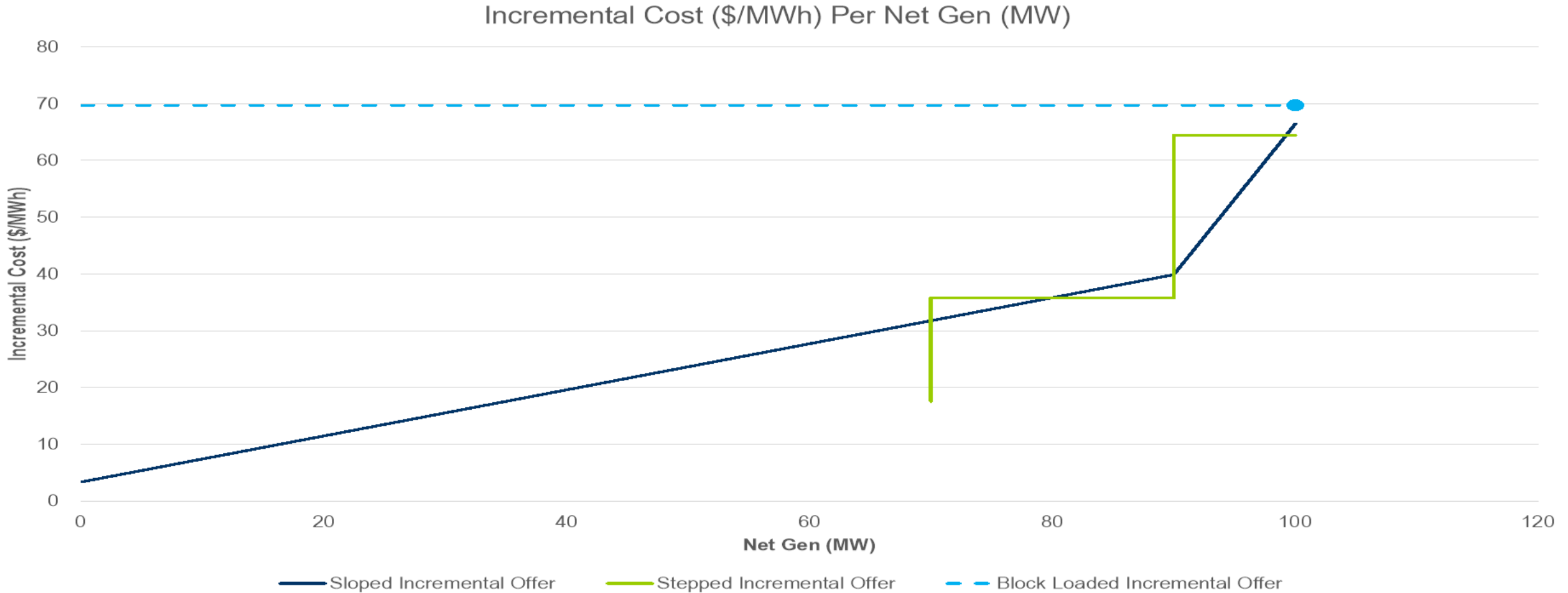
November 9, 2022

- Split out heat input curves into separate tab in order to declutter offer tabs
- Corrected Incremental Offer for discontinuity in heat rates
- Added Incremental Offer comparison graph
- Added error check to each tab
- Removed draft notes
- Implemented IMM requested updates:
  - Ensured Incremental Offer equation consistency in Sloped Offer tab
  - Removed Net Gen 0 MW row in Stepped Offer tab
  - Simplified Block Offer tab

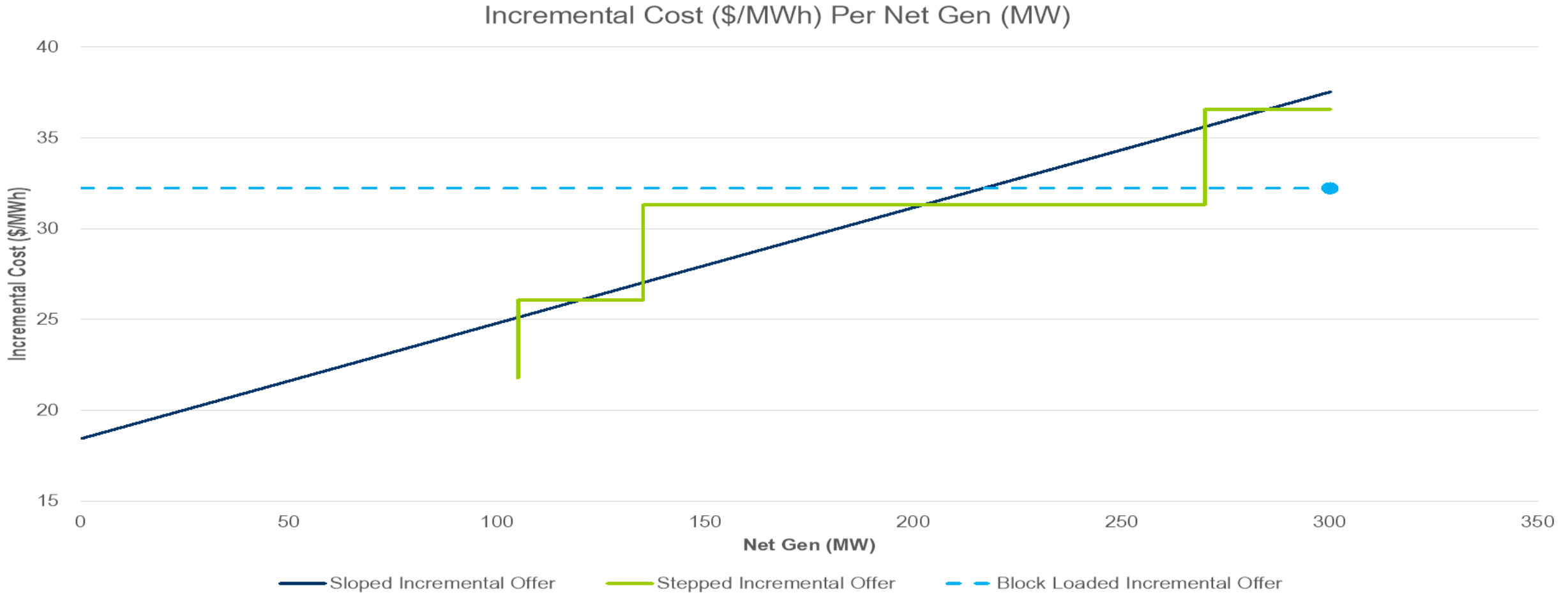
- Typical steam example
  - Heat Input (MMBtu/Hr) =  $0.00156391 * MW^2 + 9.6894 * MW + 306.744$
  - No – load Fuel (MMBtu/Hr) = 306.744
  - Performance Factor = 1.02
  - Total Fuel Related Cost (TFRC) (\$/MMBtu) = \$14.00
  - VOM = \$0.15/MMBtu



- Typical combustion turbine (CT) example
  - Heat Input (MMBtu/Hr) =  $0.0498 \cdot \text{MW}^2 + 0.8122 \cdot \text{MW} + 578.23$
  - No – load Fuel (MMBtu/Hr) = 578.23
  - Performance Factor = 1.02
  - Total Fuel Related Cost (TFRC) (\$/MMBtu) = \$4.00
  - Maintenance Factor:
    - =1.0 for minimum and base
    - =3.0 for peak
  - VOM = \$75/ESH



- Typical 2 on 1 combined cycle (CC) with duct burning example
  - Heat Input (MMBtu/Hr) =  $0.0078 * MW^2 + 4.5164 * MW + 312.36$
  - No – load Fuel (MMBtu/Hr) = 312.36
  - Performance Factor = 1.02
  - Total Fuel Related Cost (TFRC) (\$/MMBtu) = \$4.00
  - Maintenance Factor:
    - =1.0 for all
  - VOM = \$75/ESH





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