



sustainable actions  
risk – emissions – engagement

Europa – Ireland Emissions Study  
February 2023

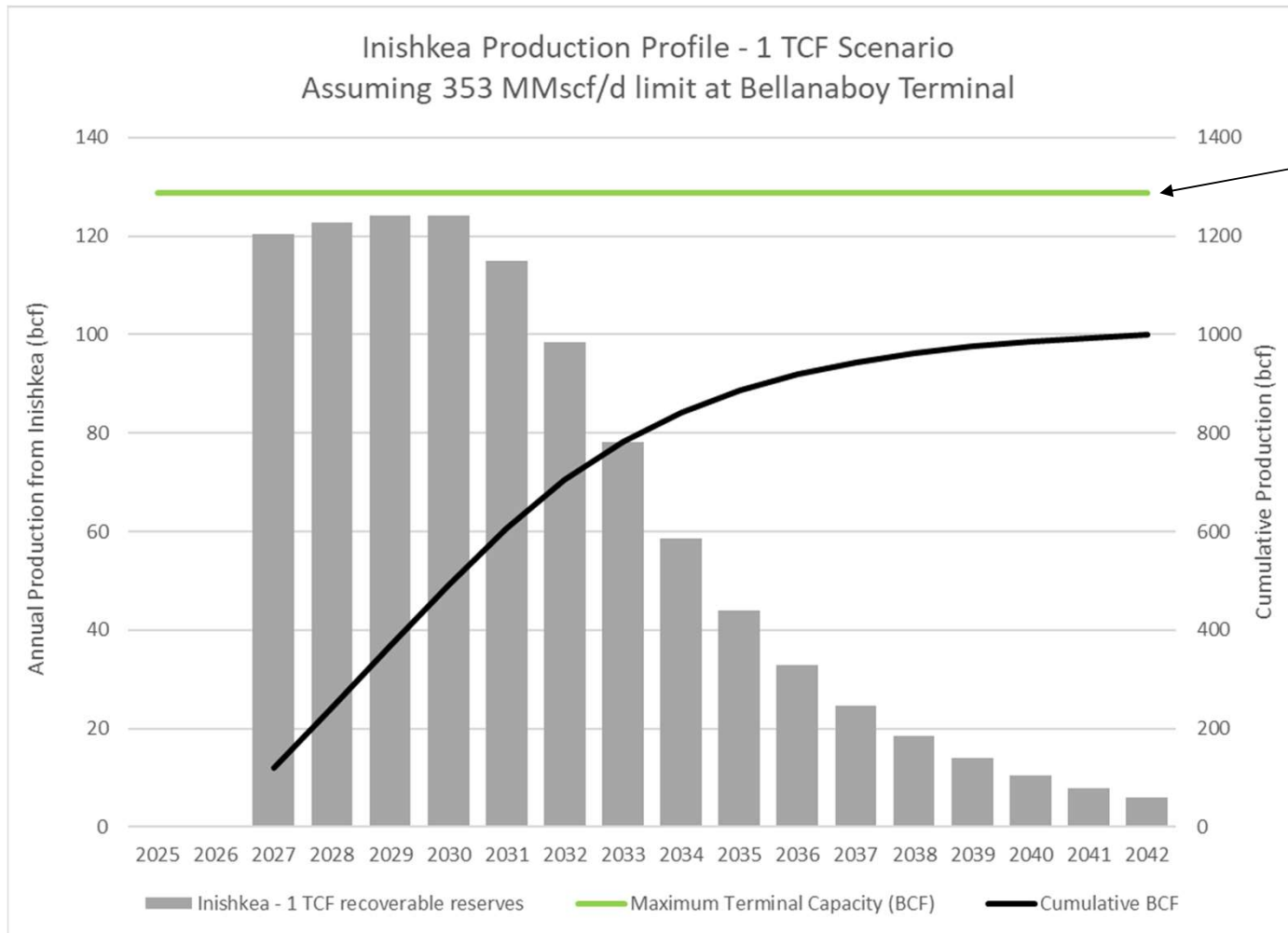


## Executive summary

- Average **operational life-of-field emissions intensities** calculated for **Corrib and Inishkea** Fields are:
  - Corrib only: **5.0 kgCO<sub>2</sub>e/boe**
  - Corrib + Inishkea (1 TCF): **3.7 kgCO<sub>2</sub>e/boe**
  - Incremental emissions Inishkea only (1 TCF): **2.8 kgCO<sub>2</sub>e/boe**
- Average Emissions Intensity of **imported gas from UK** to Ireland (including compression and export) = **36 kgCO<sub>2</sub>e/boe**
- Average Emissions Intensity of imported gas from **US (LNG) to the UK** = **145 kgCO<sub>2</sub>e/boe** (does not include export to Ireland)
- Weighted average of **all LNG imports to UK** (multiple sources) = **87 kgCO<sub>2</sub>e/boe**
- Based on these numbers (and assumptions detailed in this study), gas produced from the **Corrib and Inishkea Fields** and supplied to the **Irish domestic market** is:
  - **11% of the EI** compared to imported gas from the UK to Ireland
  - **3% of the EI** compared to imported LNG from US to the UK
- **Therefore, domestic gas production from Corrib and Inishkea will have a significantly lower emissions intensity compared to UK and US imported gas**

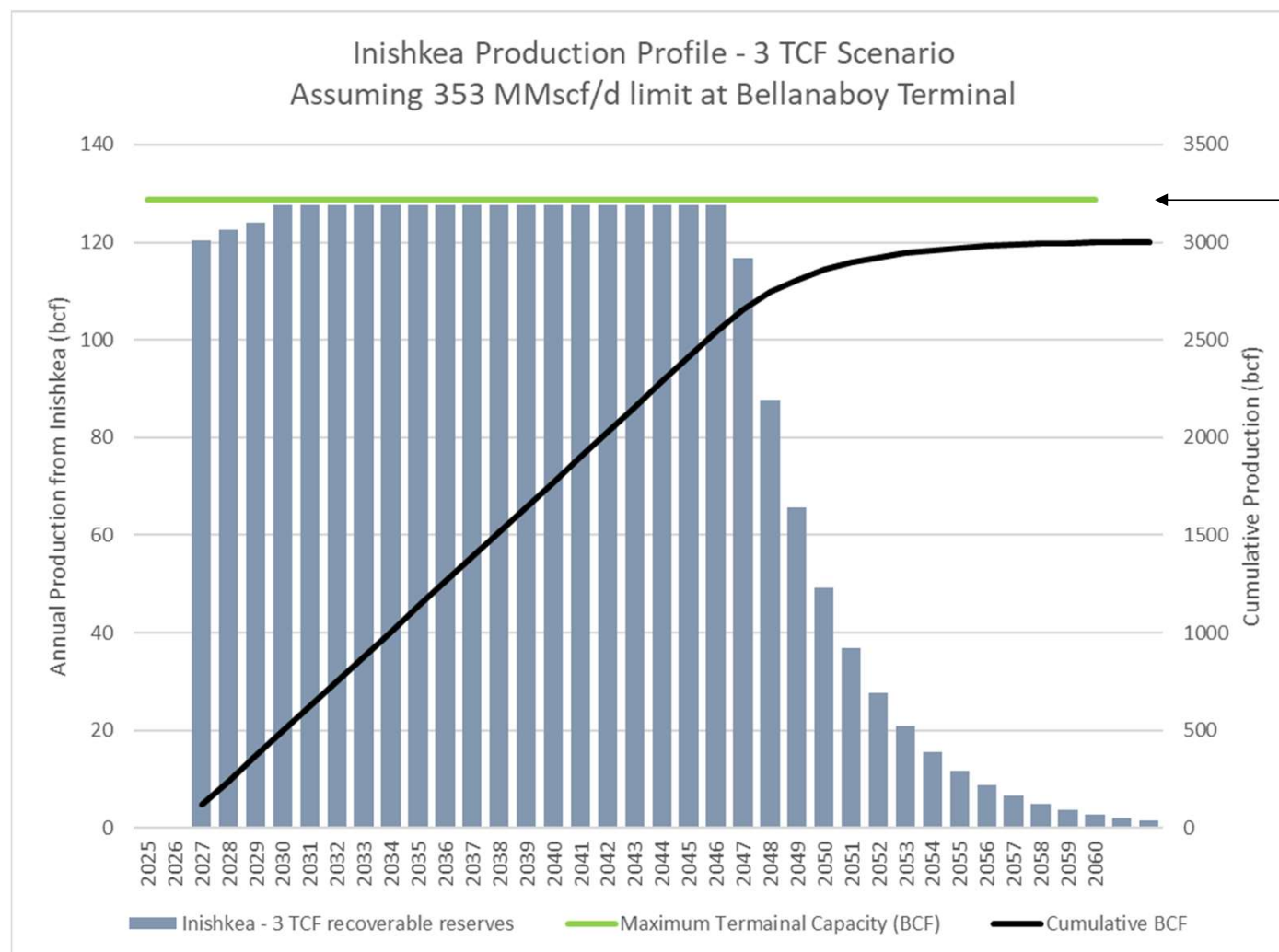
# 1. Emissions from Corrib & Inishkea Fields

## Inishkea Field – 1 TCF scenario modelled gas production



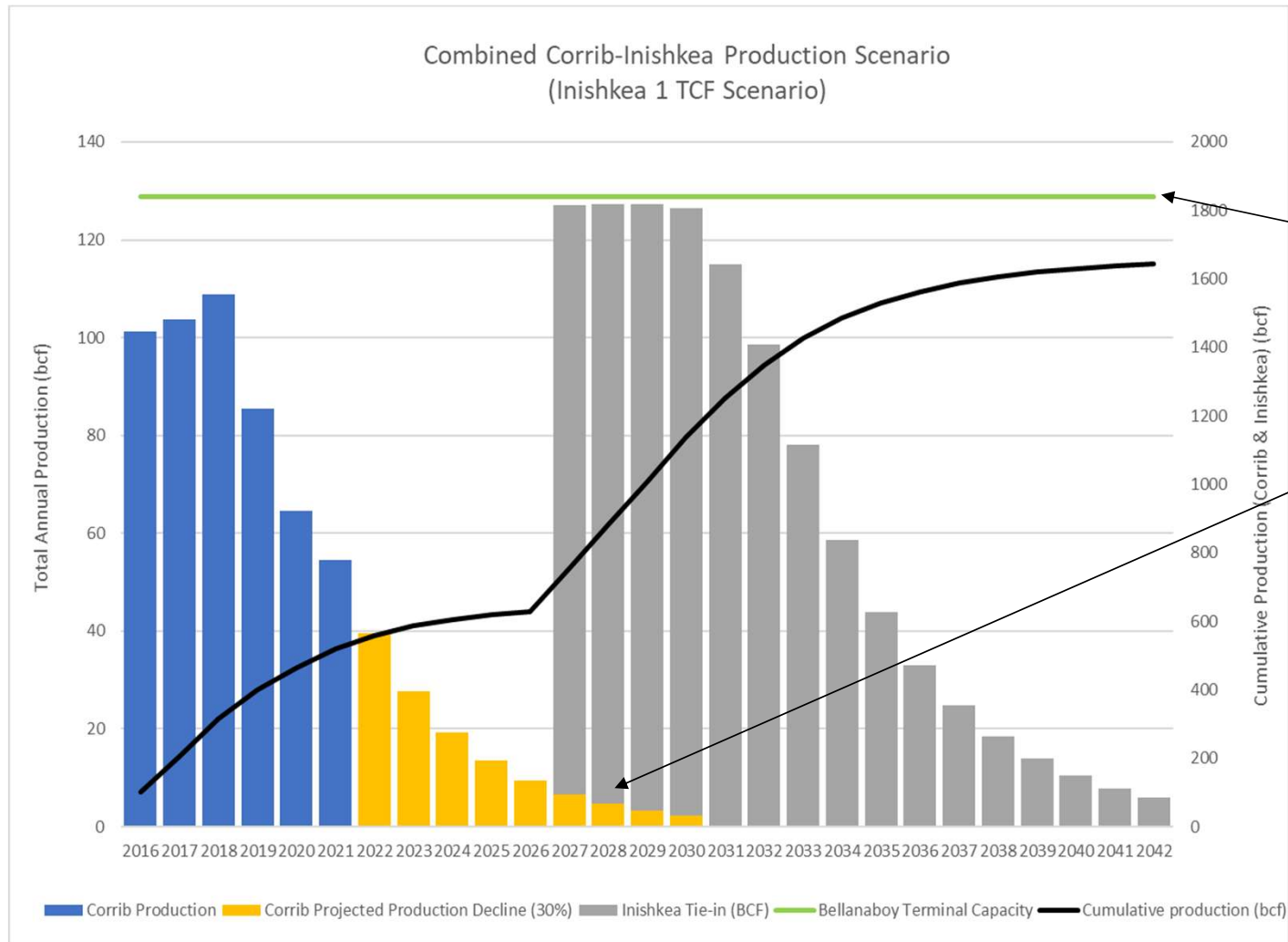
- Modelled **annual production** for 1 TCF scenario
- Accounts for **capacity of the Bellanaboy Terminal** of 353 MMscf/d (128 bcf p.a.).
- Assumes
  - 3-year **overlap in production** with Corrib
  - **Short plateau** and **25% annual decline**
  - **15 year** field life
  - Total cumulative production **1 TCF**

# Inishkea Field – 3 TCF Scenario modelled gas production



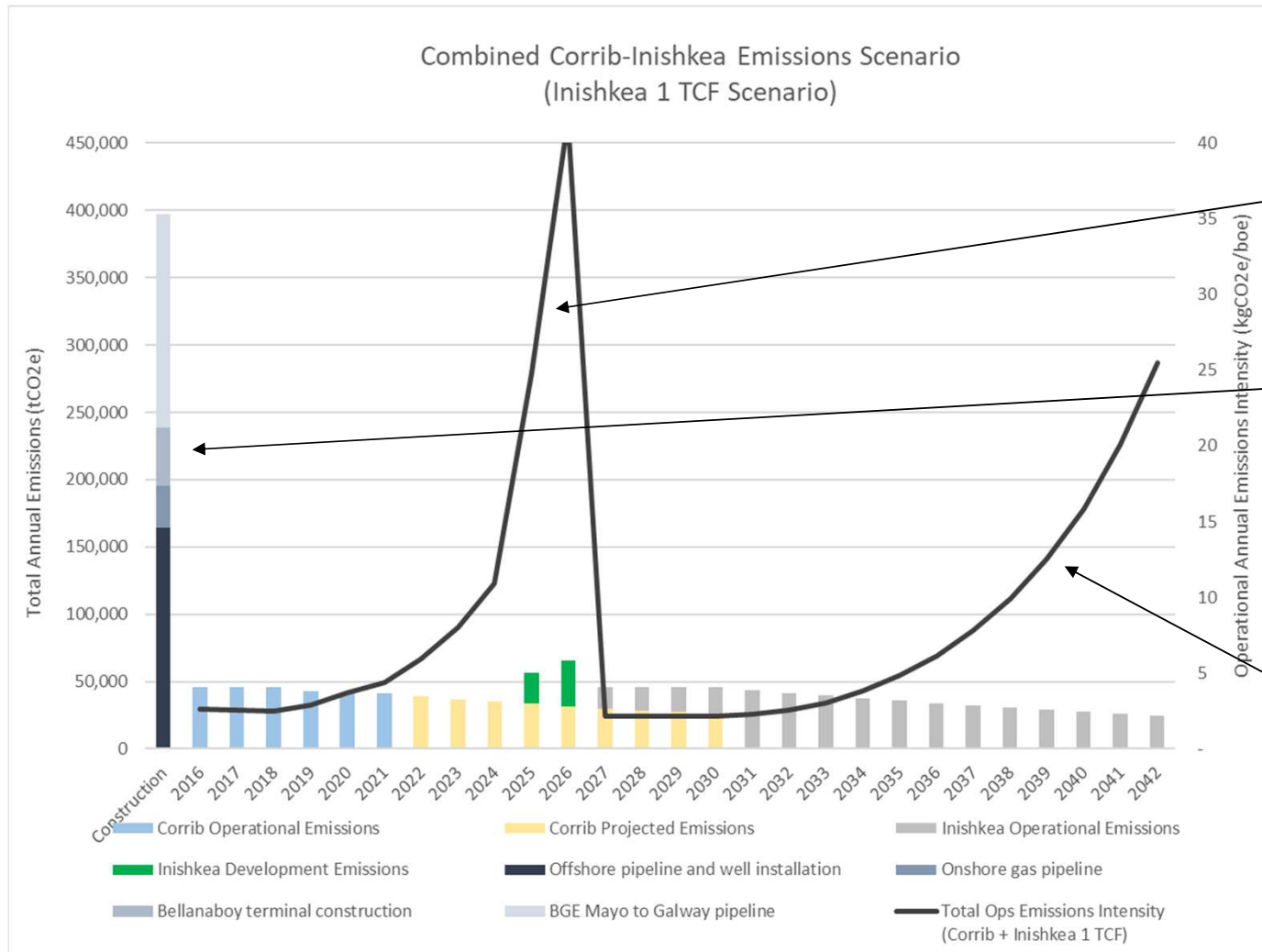
- Modelled **annual production for 3 TCF scenario**,
- Accounts for capacity of the Bellanaboy Terminal of **353 MMscf/d – no upgrading of facilities**.
- Assumes
  - **25% annual decline**
  - **35 year** field life
  - Total cumulative production **3 TCF**
- **Upgrading** capacity at terminal in 3 TCF case **likely required**.

# Corrib & Inishkea Fields – Combined scenario for gas production



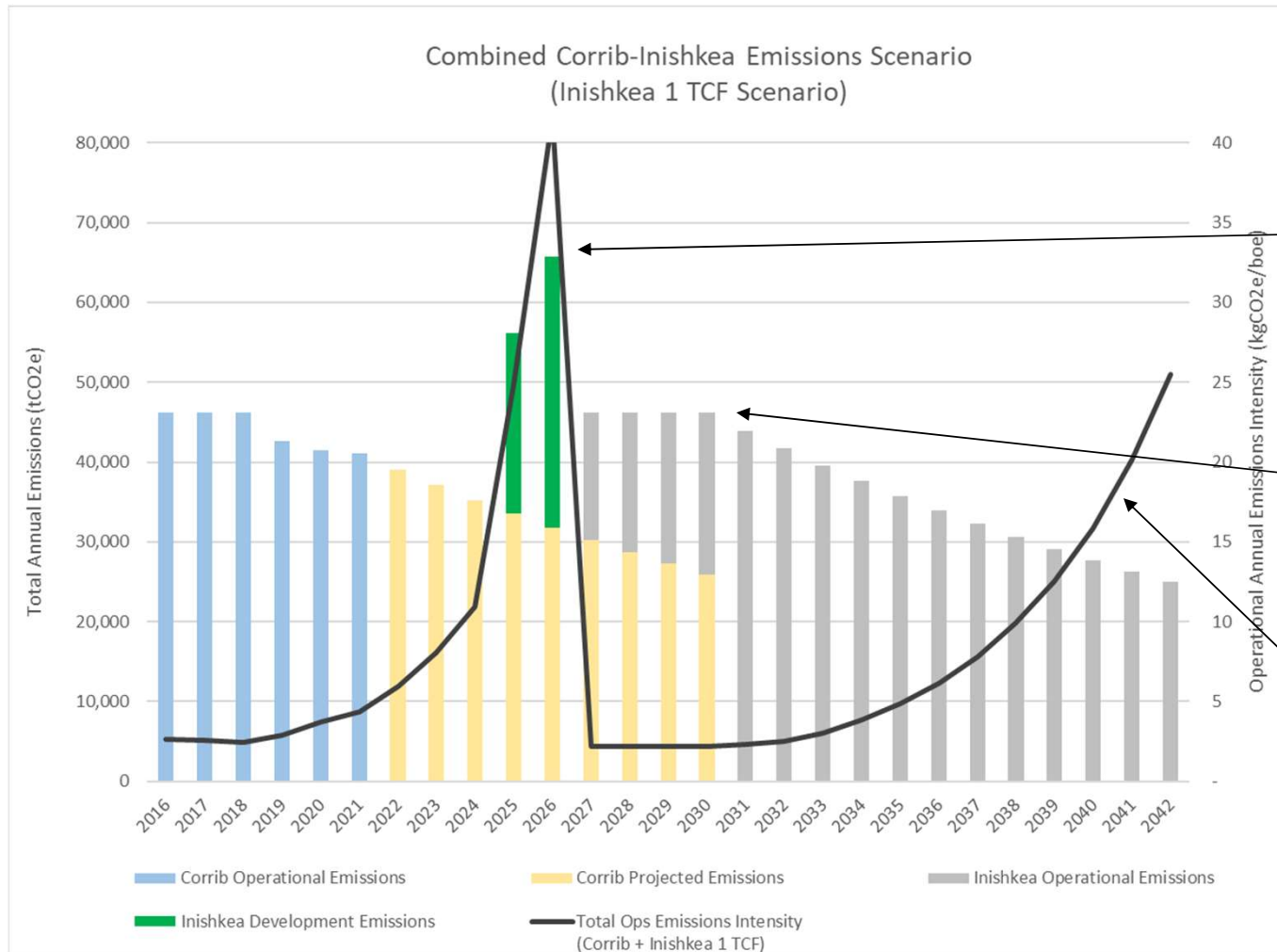
- **Combined production scenario** for Corrib and Inishkea
- **1 TCF scenario for Inishkea**, taking into account capacity of the Bellanaboy Terminal – **no upgrading of facilities.**
- Model assumes some **overlap** in production between Corrib and Inishkea
- Based on assumptions and models from **previous slides.**

# Corrib & Inishkea Fields – Combined construction & ops emissions



- **Total construction and annual operational emissions** from Corrib and Inishkea
- Spike in Corrib's emissions intensity as production declines to low levels before Inishkea comes online
- Emissions associated with **construction of Corrib facilities**
- Inishkea operational emissions initially assumed to be the **same as when Corrib was at/near peak production**
- **Emissions intensity** in fields increases as production declines.

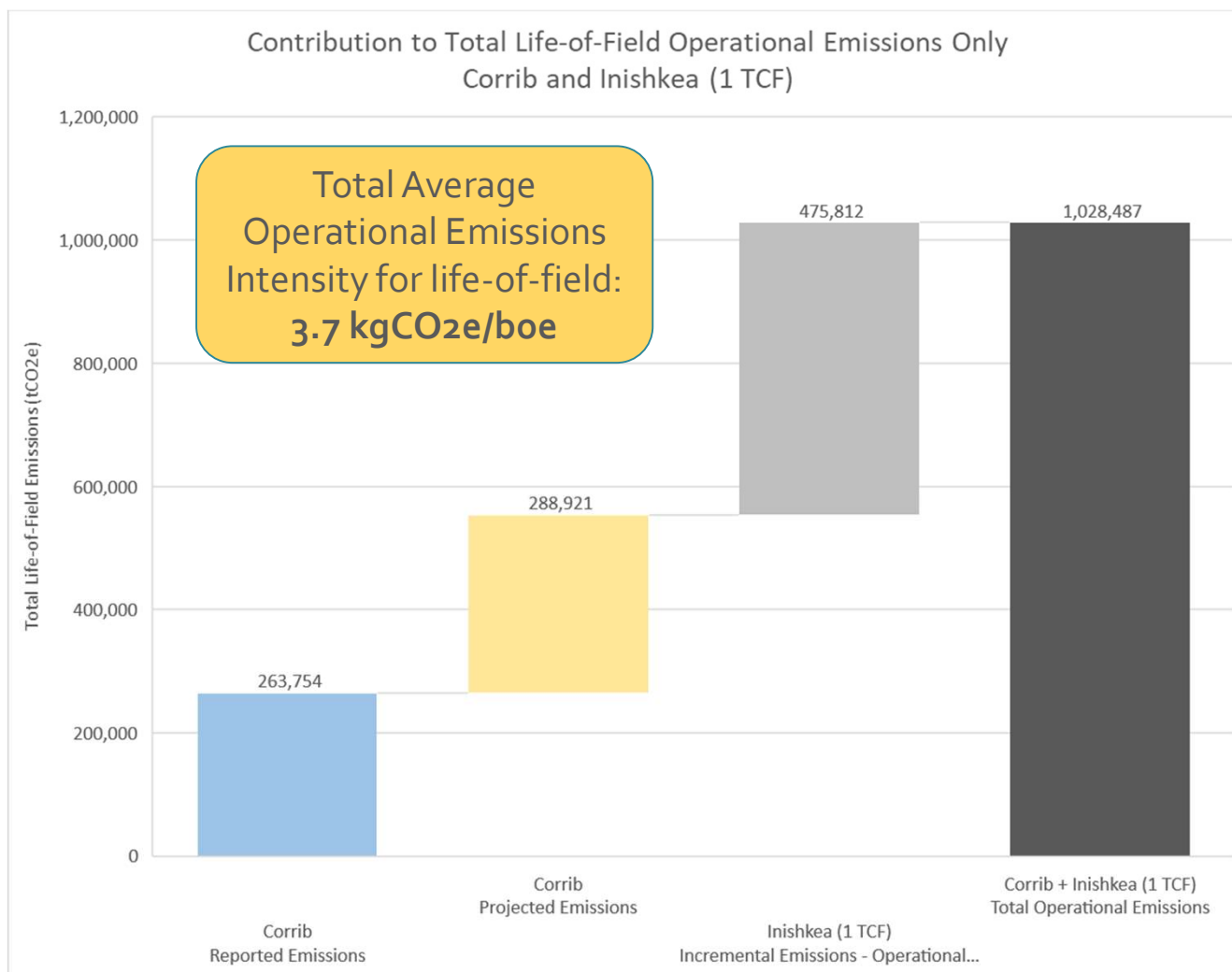
# Corrib & Inishkea Fields – Combined operational emissions



- **Total annual operational emissions from Corrib and Inishkea**
- Spike in Corrib's emissions intensity as production declines to low levels before Inishkea comes online
- Inishkea operational emissions initially assumed to be the **same as when Corrib was at/near peak production**
- **Emissions intensity** in fields increases as production declines.



# Corrib & Inishkea Fields – Life-of-Field operational emissions (Inishkea 1 TCF)



- **Total operational emissions** from Corrib and Inishkea over **full life of both fields**
- Development and construction emissions **not** included
- Emissions calculated based on **combined production scenario** for **Corrib and Inishkea (1 TCF Scenario)**
- **Average Life-of-Field Emissions Intensities:**
  - Corrib only:  
**5.0 kgCO<sub>2</sub>e/boe**
  - Corrib + Inishkea (1 TCF):  
**3.7 kgCO<sub>2</sub>e/boe**