

# **Masdar 24/7 Dispatchable Renewables vs. Nuclear Projects**

## **Speed, Safety, and Scalability in the Energy Transition**

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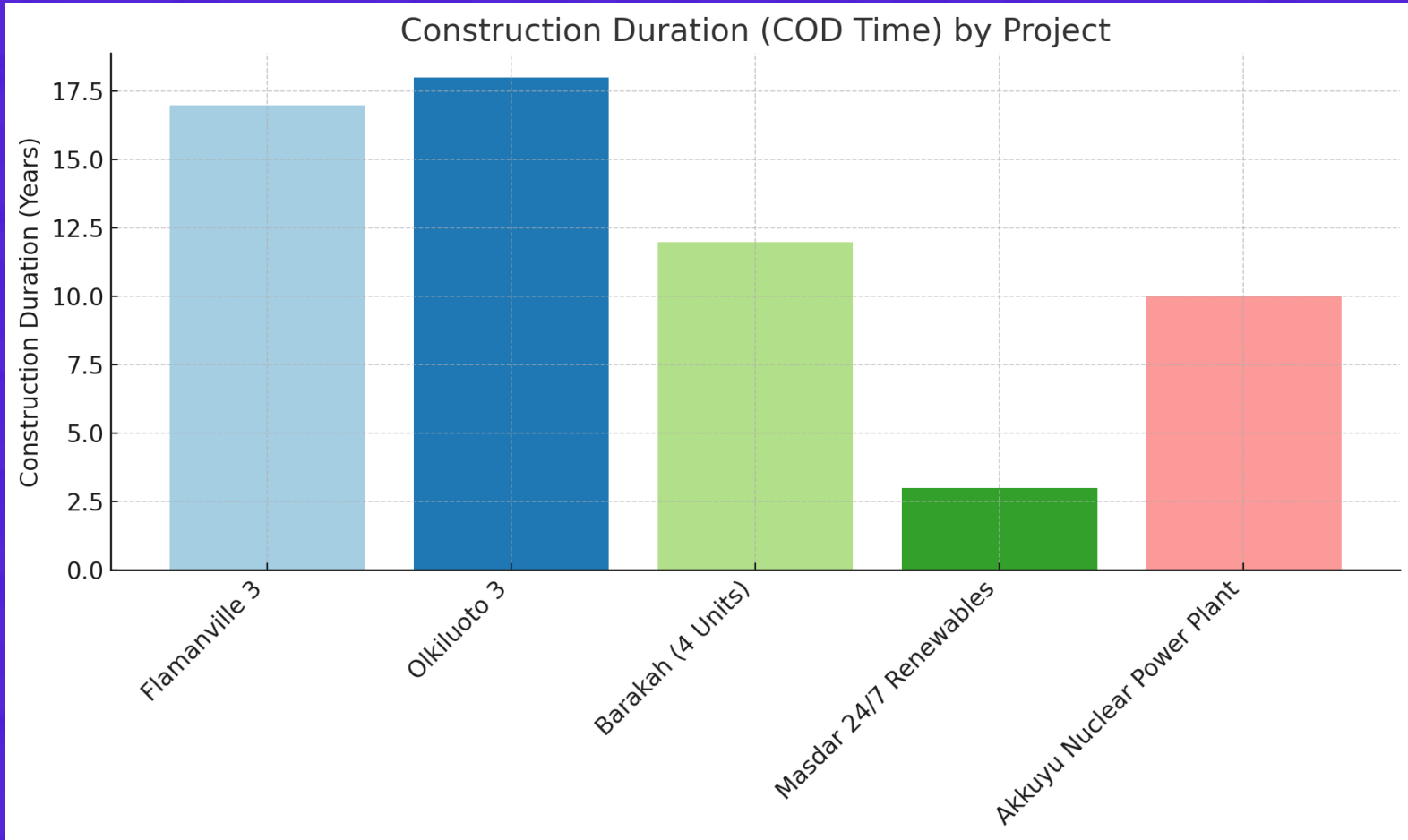
# Legacy Nuclear Projects: Delays & Costs

- ⚠ Flamanville 3 (France):
  - Started: 2007 | Output: 1,650 MW
  - Commissioning: 2025 (17 yrs) | Cost: €19.1B
  - Delay: 12 years
- ⚠ Olkiluoto 3 (Finland):
  - Started: 2005 | Output: 1,600 MW
  - Commissioning: 2023 | Delay: 14 years
  - Cost: €8.5B
- ⚠ Akkuyu (Turkey):
  - Output: 4,800 MW | Est. Cost: \$22B
  - Start to COD: ~10 years

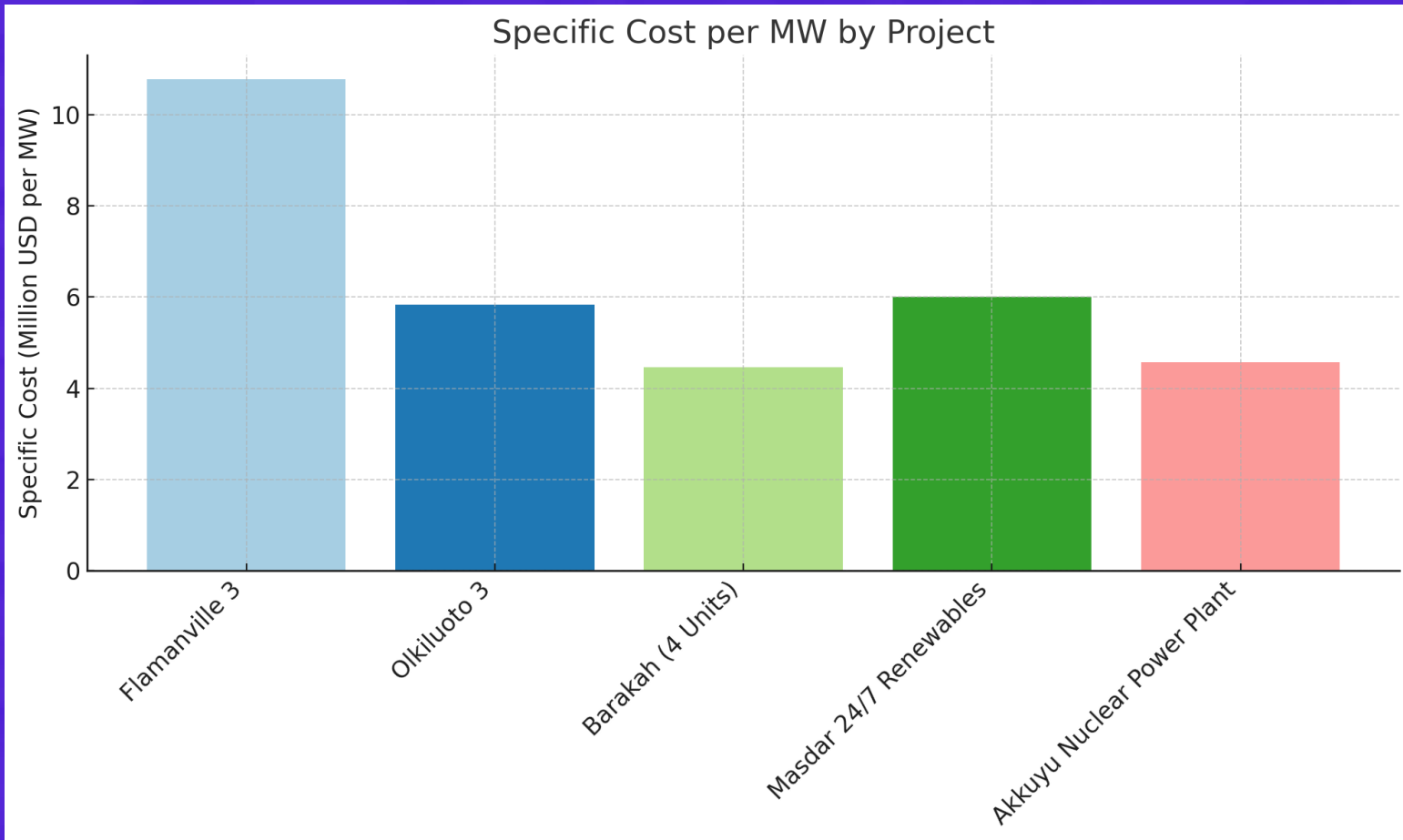
# Masdar 24/7 Dispatchable Power (UAE)

- 🌞 5.2 GWp Solar PV + 19 GWh BESS
- ⚡ Output: 1 GW continuous, dispatchable clean power
- ⌚ Construction: 2024–2027 (3 years)
- 💰 Investment: ~\$6B
- ✅ Ideal for AI data centers, grid baseload, and industrial loads
- ♻️ Zero nuclear waste | ⚠️ No radiation risk
- ✂️ Less land, no water cooling, scalable anywhere





# Construction Duration (COD Time) By Project



# Specific Cost Per MW By Project



# The Future is Now: Renewable Baseload

-  Faster to build
-  Lower capex per MW
-  Zero-emission, zero-waste
-  Safer, scalable, decentralised

**Masdar is setting the new global benchmark.**

**Baseload renewables aren't the future — they're happening now.**

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