

# Environmental Impact of Future Colliders

*Tuesday 6 September 2022 17:48 (12 minutes)*

We present the results of the Snowmass Implementation Task Force (ITF) analysis of 15 future collider concepts. We consider both the environmental cost of construction (CO<sub>2</sub> footprint per meter of tunnel) and the carbon footprint associated with collider power consumption. We discuss strategies to mitigate the power consumption of future high-energy colliders, such as energy recovery. We also consider options to power colliders with renewable energy sources, and how to present a new collider as a benefit to society.

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**Session Classification:** Input and Discussion