

2015 Power Dissipated by the Cooling Towers

The cooling circuits at CERN use evaporative open cooling towers to discharge into the atmosphere the heat removed from equipment in the accelerators and in the experiments.

The Cooling Networks

Cooling networks at CERN are generally dedicated to one specific accelerator complex; the size and the number of cooling towers per complex depend on the amount of cooling power required.

LHC	one cooling tower per even LHC Point, one in Point 1 for ATLAS, one in Point 5 for CMS and an additional tower in Point 18
SPS	one cooling tower close to BA6
North Area	one cooling tower on the Prévessin site
PS and the Meyrin Site	14 cooling towers are installed on the Meyrin site: they are dedicated to the PS complex and some specific equipment (e.g. POPS).

The power that has been evacuated via the cooling towers during 2015 is indicated in the following tables.

2015	Power [GWh]
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1. TOTAL LHC	548
LHC Point 1	80
LHC Point 18	6
LHC Point 2	92
LHC Point 4	117
LHC Point 5	33
LHC Point 6	73
LHC Point 8	147
2. SPS	262
3. North Area	143
4. TOTAL PS – Meyrin site	109
Building 378	2
Building 201	5
AD	4
LEIR + Linac 2 & 3	5
PSB (demineralized and chilled water)	18
PS complex	57
POPS	3
EAST Area	5
Isolde	2
CTF3	8
Total CERN	1'062