

The Zayandehrud Dam

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This dam lies on the Zayandehrud River at 110 kilometers west of Isfahan. The main purposes of its construction include:

1. a. Irrigation of the Isfahan plain.
b. Increasing agricultural area.
c. Increasing crop production.
2. Supply of necessary water for steel mill plants.
3. Protection of the city of Isfahan, surrounding villages, and especially historical bridges, from extreme floods.
4. Production of part of the power consumed by Isfahan.

The construction of the Zayandehrud Dam, hydropower plant, and regulating reservoir began during August 1966 by a French company named Saussure and by October 1969 the dam was operational. Subsequent to construction of this project, the supplementary facility of Kuhrang II Diversion Dam

and Tunnel was finished, which conveys additional water from the Kuhrang River and some branches of the Karun River into the Zayandehrud.

The concrete dam is a type of concrete arch dam.

The general specifications for the Zayandehrud Dam are as follows:

Crown level above sea level:	2,063 m
Max. ht. from foundation:	100 m
Max. ht. from Zayandehrud Riverbed:	88 m
Length of crown	450 m
Thickness in upper curve:	6.5 m
Thickness in lower curve:	28.72 m
Max. pool level (under normal conditions):	2,059 m
Storage volume at water level 2,059:	1,250 M
Useful storage volume	1,090 M
Reservoir surface area at 2,059 level:	48 km ²

