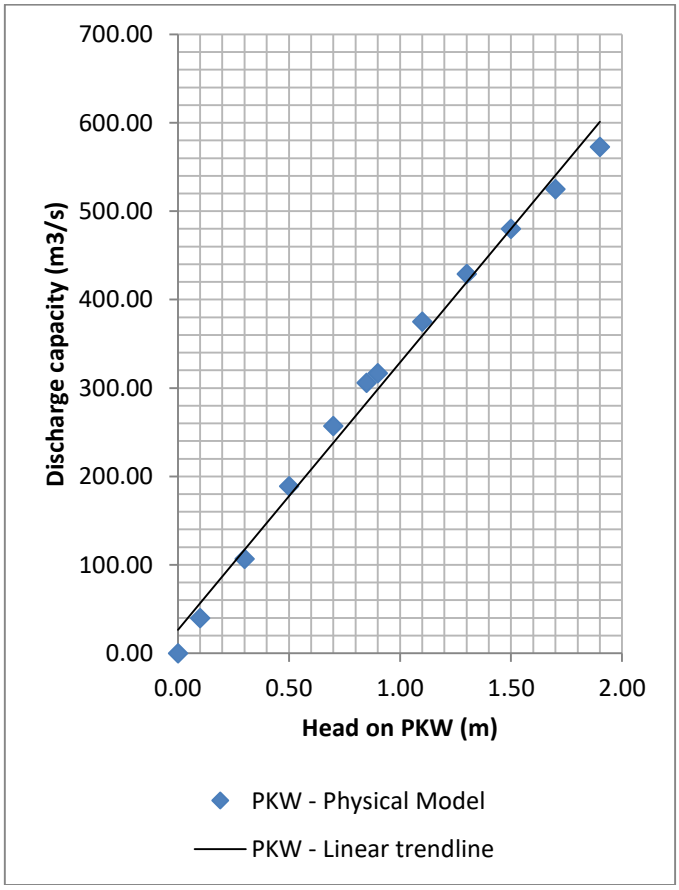
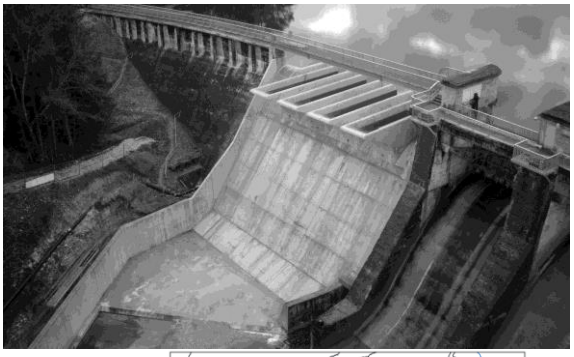
*Dam's name:* **CHARMINES** *PKW's year of Construction:* 2015



Country: France

| *Progress of work :* | Built |
|---|---|

| | |
|---|---|
| *Dam's owner:* | EDF |
| *Consultant and physical model laboratory:* | SOGREAH |
| *Contractor:* | Damathieu & Bard / Implénia |
| *PKW location:* | Dam Crest, on each side of the gates |
| *Downstream energy dissipation type:* | Spillway |
| *PKW purpose:* | Increase discharge capacity |
| *PKW discharge capacity at MWL (m3/s):* | 300 |
| *Surveillance devices (Presence and type):* | No |
| *Aeration (type and diameter of the pipe):* | PVC pipe of 250 mm of diameter+ collector of 500 mm |
| *Overflowing Frequency:* | > 10 years |
| *Number of overflow known:* | 1 (test) |
| *Maximum head on PKW experienced (m) and date:* | 1 cm (test – 01/06/2016) |
| *Material of the PKW:* | Reinforced concrete |
| *Type of model used:* | Physical |
| *Type and number of other spillway:* | 2 gated spillways |
| *B (m):* | 13.24 |
| *P (m):* | 4.38 |
| *W (m):* | 2x33 |
| *L (m):* | 2x120 |
| *Number of inlet:* | 2x4 |
| $W_i$ *(m):* | 2.4 |
| *Number of outlet:* | 2x4 |
| $W_o$ *(m):* | 1.6 |
| $T_s$ *(m):* | 0.35 |

Plan view of the PKW

Upstream view of the PKW

Downstream view of the PKW

Comment:

Built in a classified site for its natural beauty, the PKW integration has been studied by architects