

Production Replacement Ratio = PRR

Ratio of current [Water injection rate](#) $q_{WI}^{\downarrow}$ to current [Liquid production rate](#) $q_L^{\uparrow}$:

$$(1) \quad PRR = \frac{q_{WI}^{\downarrow}}{q_L^{\uparrow}}$$

It is normally calculated for the whole field or its sector and represents one of the key [Production Analysis](#) metrics.

Unlike [VRR](#), the [PRR](#) does not have a direct correlation with [reservoir pressure maintenance](#) and is mostly used as engineering tool for a trackable target in [field operations](#).

Most [Reservoir Engineers](#) make their analysis in [VRR](#) categories and then translate them into [PRR](#) so that [Production Technologists](#) can follow up.

See Also

[Petroleum Industry](#) / [Upstream](#) / [Production](#) / [Subsurface Production](#) / [Field Study & Modelling](#) / [Production Analysis](#)

[[Offtakes](#)] [[Intakes](#)] [[Cumulative VRR](#)]