Run label IT494m_OTs2x350deg_shiftout Path /home/millerma/arcnt uedge/final baseline Plots created 02:46 AM Thu 21 Dec 2023 **UEDGE version** 7.0.9.2.2

Grid nx = 64, ny = 44, 0 cells are invalid polygons

Core n; fixed uniform 1.5e+20 m⁻³

Core n_n set loc flux = -(1-albedoc)*ng*vtg/4

Core T_e , T_i or P_e , P_i fixed $P_e = 6.25$ MW, $P_i = 6.25$ MW

Core ion v_{\parallel} (up) d(up)/dy = 0 at core boundary

Uniform coeffs $D = 0 \text{ m}^2/\text{s}$, $\chi_e = 0 \text{ m}^2/\text{s}$, $\chi_i = 0 \text{ m}^2/\text{s}$

 ${\sf CF}$ wall ${\sf T_e}$ extrapolated

PF wall T_e fixed 2 eV

 $\pmb{\mathsf{CF}}$ $\pmb{\mathsf{wall}}$ $\pmb{\mathsf{T_i}}$ extrapolated

PF wall T_i fixed 2 eV

CF wall ni extrapolated

PF wall n_i fixed 1e+18 m⁻³

Flux limits unknown

Recycling coefficient 1 (plates), 1 (walls)

Neutral model inertial neutrals

Impurity Z 10

Impurity model fixed-fraction model

Impurity fraction spatially varying (mean = 0.0013, std = 4.79e-19, min = 0.0013, max = 0.0013)

Potential equation off

Converged yes, sim. time 0 s

Field line angle 2.98° inner target, 3.8° outer target

Separatrix $n_i = 9.2e + 19 \text{ m}^{-3}$, $n_n = 3.9e + 12 \text{ m}^{-3}$, $T_i = 398 \text{ eV}$, $T_e = 537 \text{ eV}$

Outer PF corner p_n 385 Pa

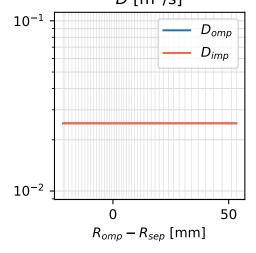
Power sharing 1:2, $P_{LCFS\ inboard}=4.1\ \text{MW}, P_{LCFS\ outboard}=8.3\ \text{MW}$ $P_{\text{rad\ imp}}\ P_{tot}=4.7\ \text{MW}, P_{xpt}=1.3\ \text{MW}, P_{ileg}=0.63\ \text{MW}, P_{oleg}=2.4\ \text{MW},$

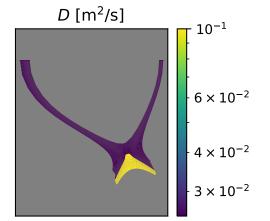
 $P_{main\ chamber\ SOL} = 0.55\ MW, P_{core} = 0.036\ MW$

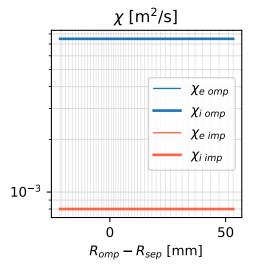
Power balance $P_{loss} = 14 \text{ MW} = P_{core} + 13\%$

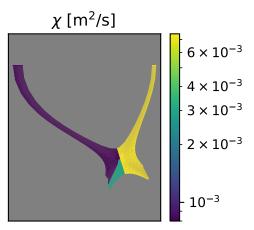
 $(P_{IT} = 1.5 \text{ MW}, P_{OT} = 4.4 \text{ MW}, P_{CFW} = 0.094 \text{ MW}, P_{PFW} = -0.55 \text{ MW}, P_H = 4.2 \text{ MW}, P_I = 4.7 \text{ MW})$

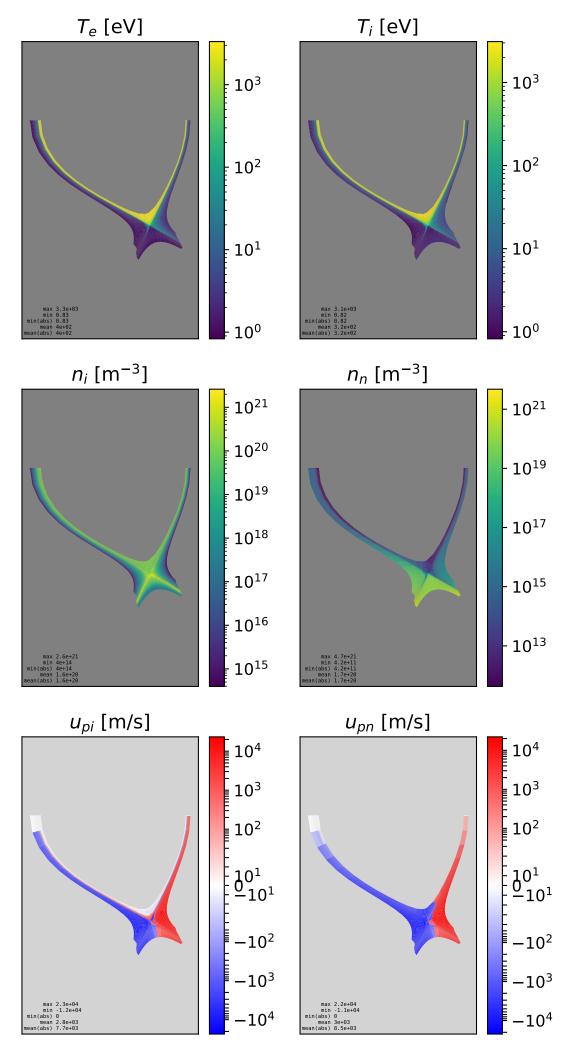
Density balance $\Sigma_{xy}|\Sigma_s(\Delta n)_s^{xy}|/\Sigma_{xy}\Sigma_s|(\Delta n)_s^{xy}| = 1.7e-08\%$ $D[m^2/s]$

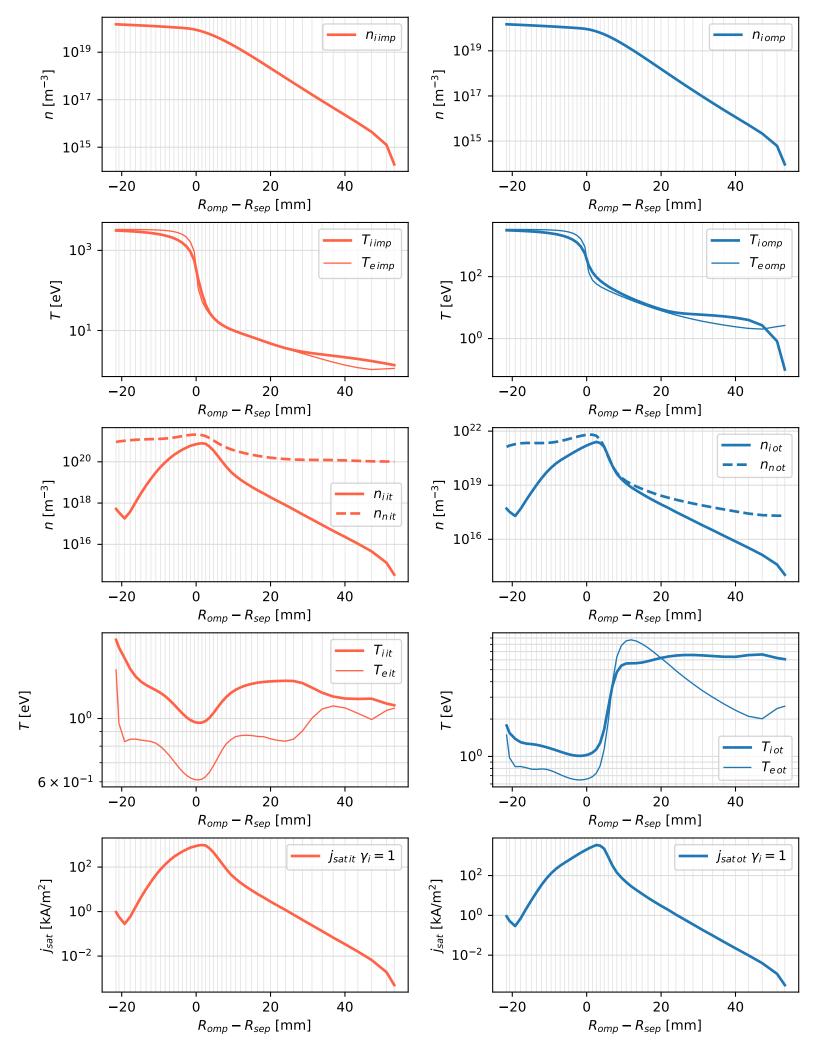


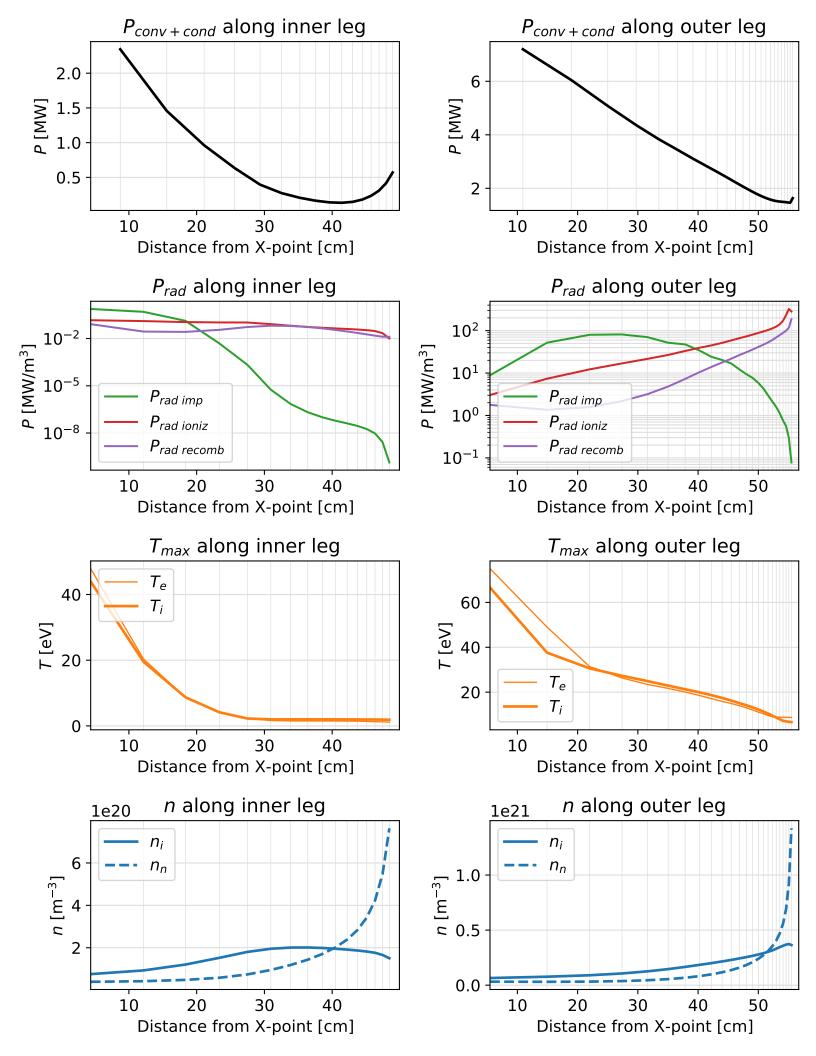


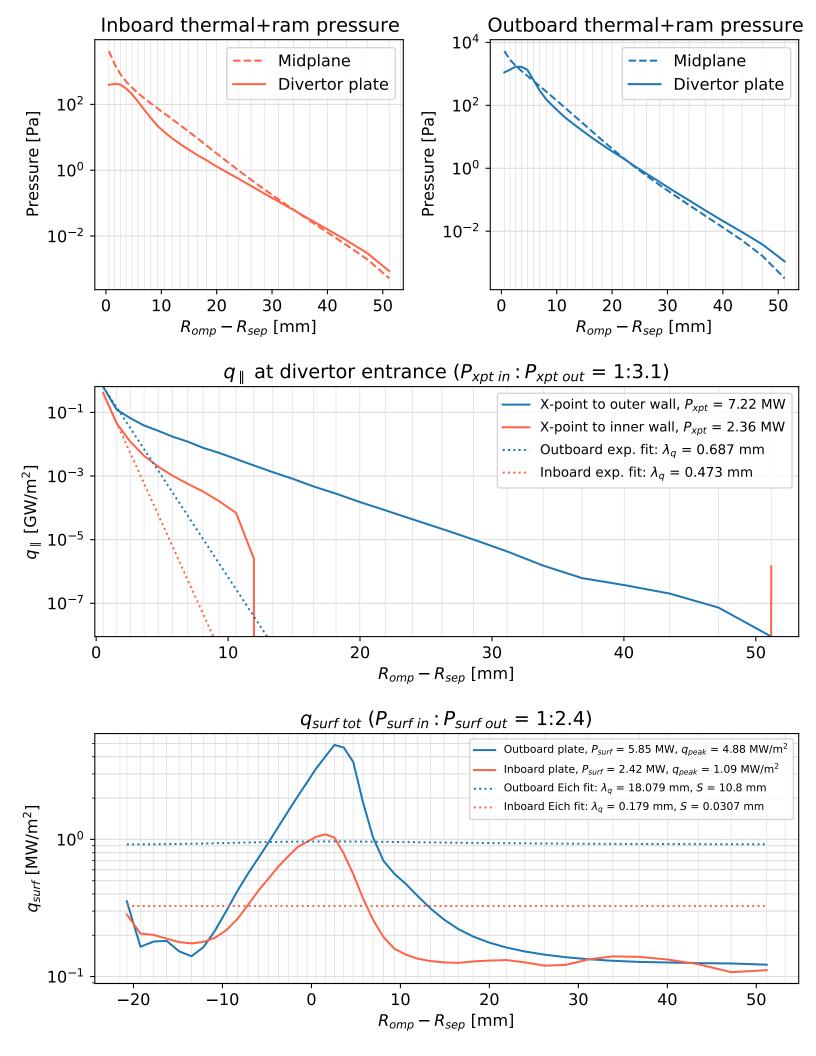


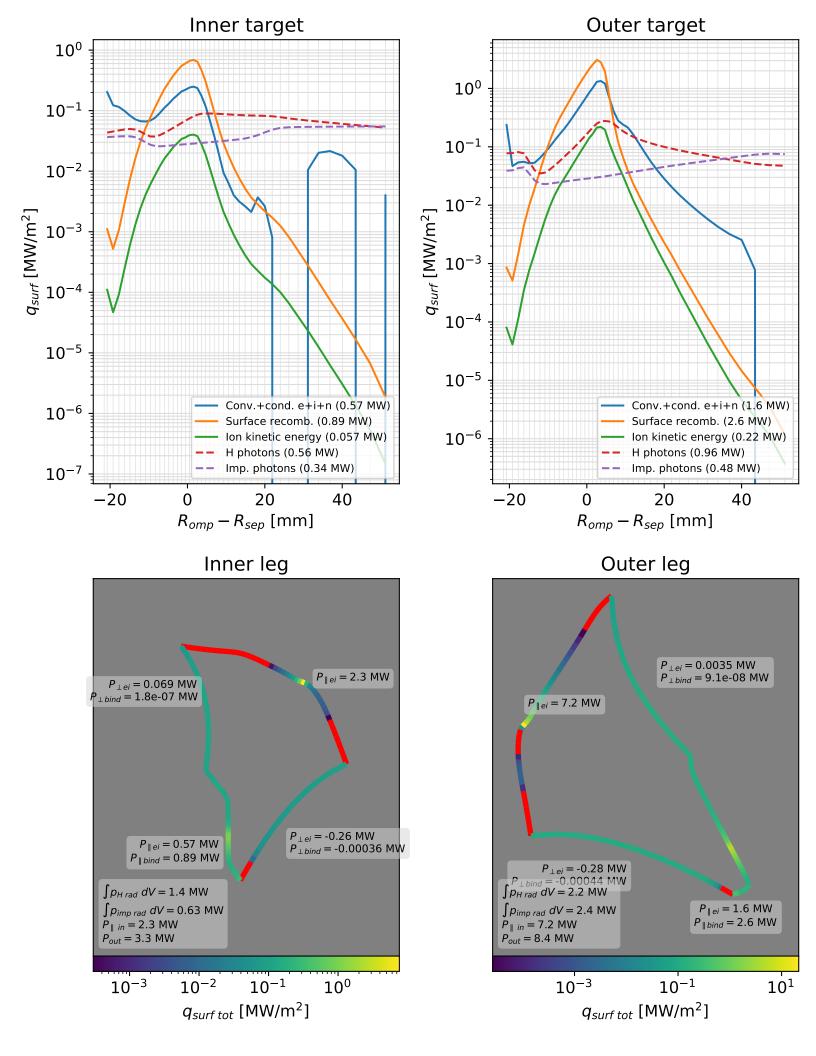


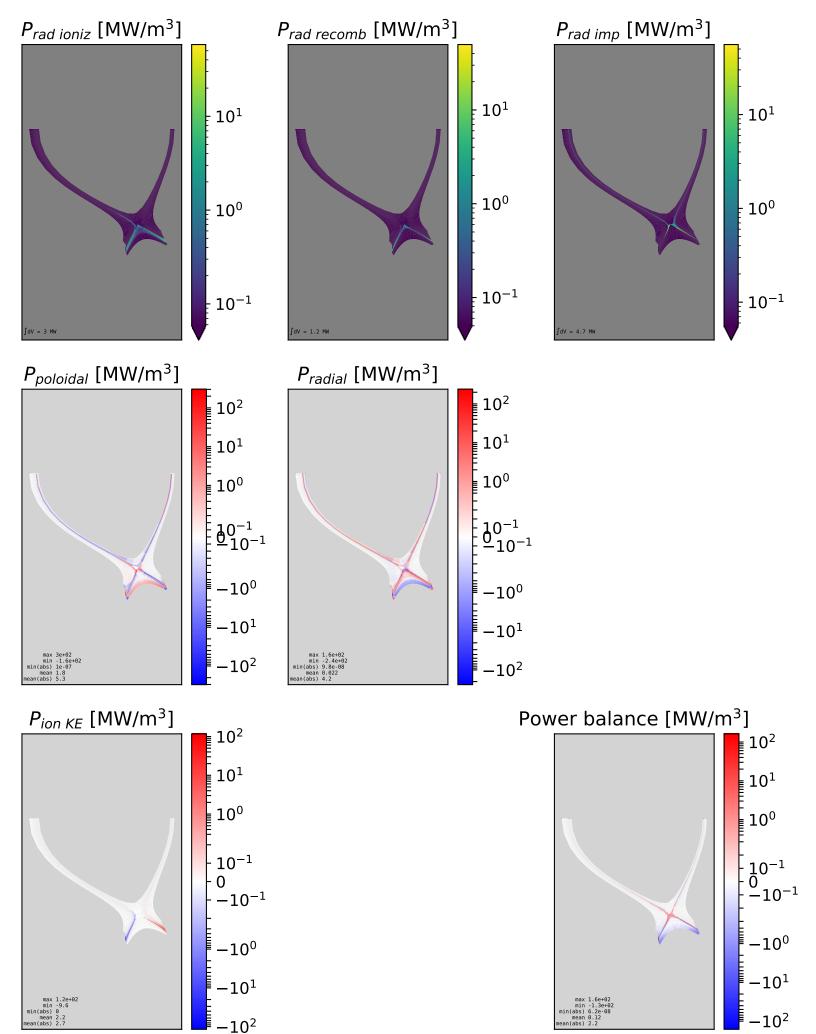


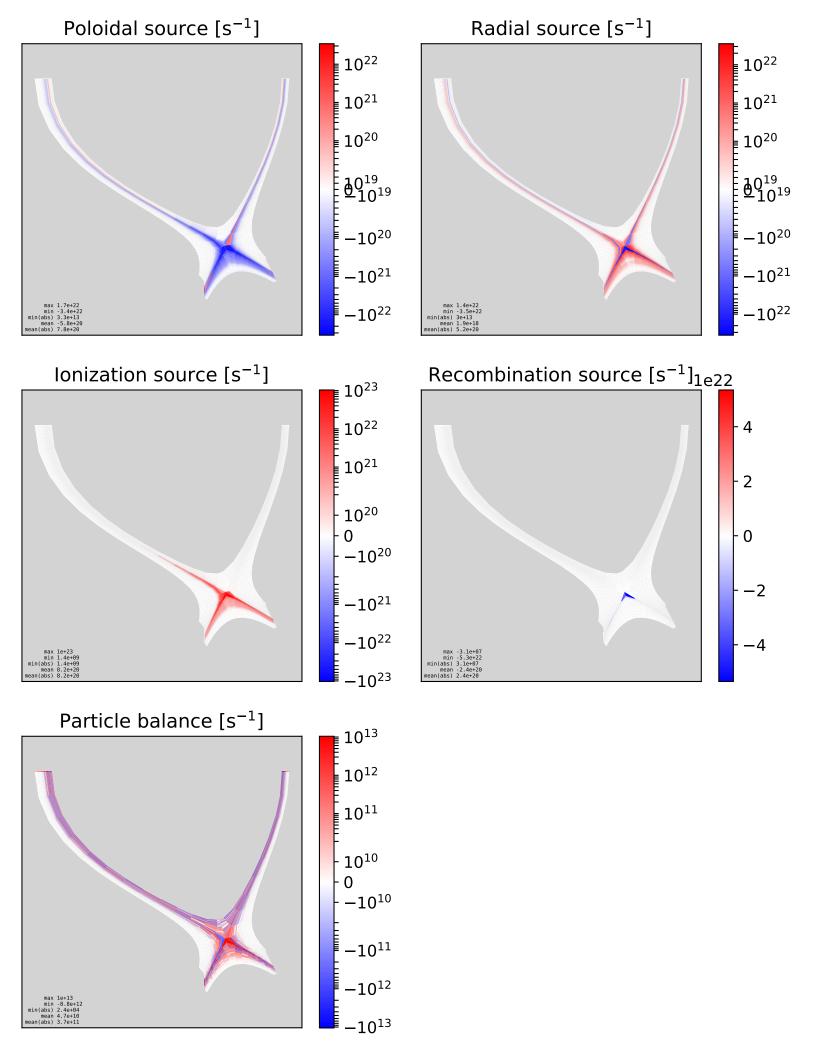












Sum over core poloidal cells

