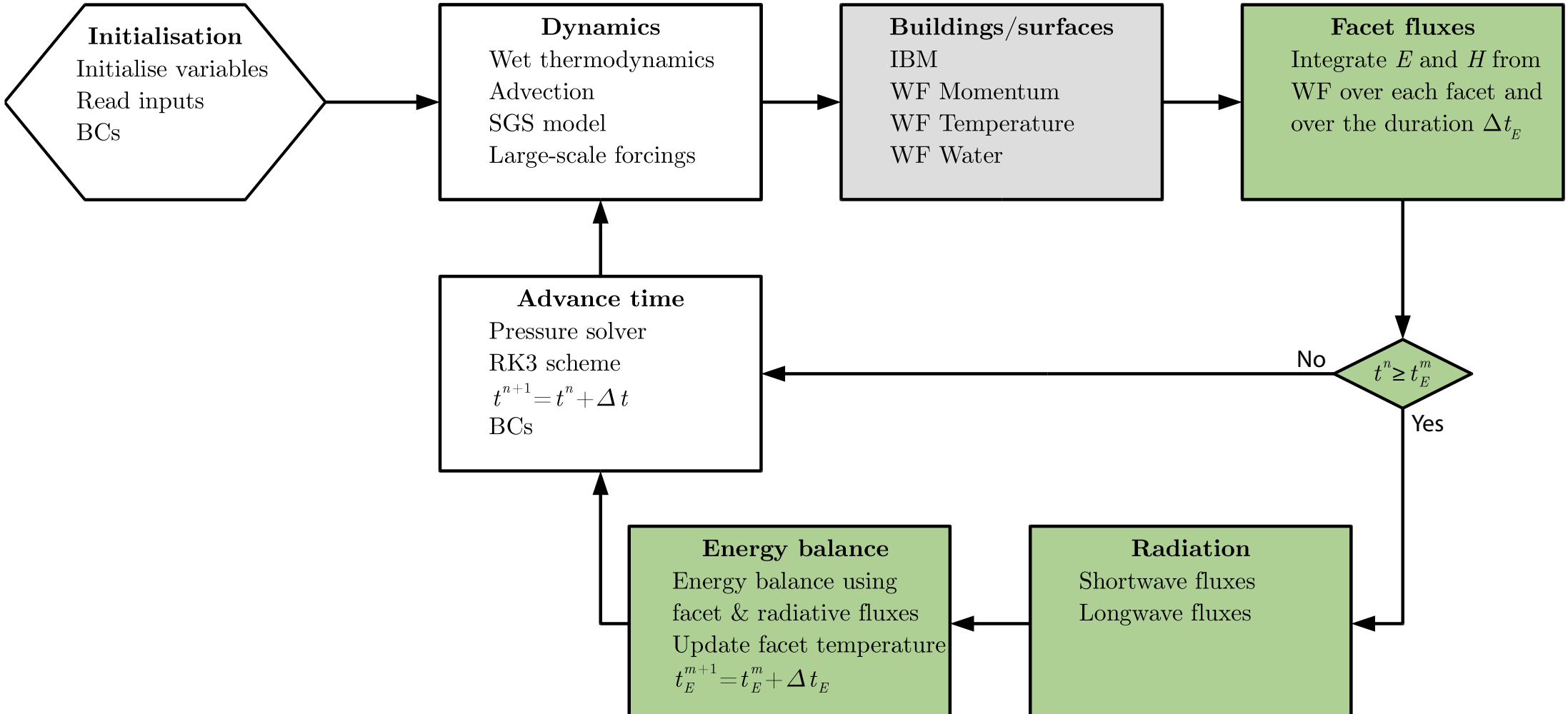
Initialisation
Initialise variables
Read inputs
BCs
Dynamics
Wet thermodynamics
Advection
SGS model
Large-scale forcings
Buildings/surfaces
IBM
WF Momentum
WF Temperature
WF Water
Facet fluxes
Integrate E and H from WF over each facet and over the duration Δt_E
Advance time
Pressure solver
RK3 scheme
$t^{n+1} = t^n + \Delta t$
BCs
No
$t^n \geq t_E^m$
Yes
Energy balance
Energy balance using facet & radiative fluxes
Update facet temperature
$t_E^{m+1} = t_E^m + \Delta t_E$
Radiation
Shortwave fluxes
Longwave fluxes