

TOWN OF DURHAM 8 Newmarket Road Durham, NH 03824-2898 603.868.8064 www.ci.durham.nh.us

ENERGY CONSIDERATIONS CHECKLIST

The Durham Energy Committee and the Durham Planning Board developed this checklist to encourage developers, applicants for Site Plan or Subdivision review, applicants for building permits, and Planning Board members to systematically consider the energy efficiency of Durham's new or renovated buildings and sites that are being developed or subdivided. Early discussion of such mandatory (where required under specific Town, State, or Federal standards) or optional energy efficiency measures may result in both energy and cost savings. For information on available funding energy efficiency improvements, see www.nhsaves.com. Completion of this checklist and a meeting with the Building Inspector and a representative of the Durham Energy Committee is required prior to any Planning Board site plan or subdivision approval.

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PART I. BUILDING CONSTRUCTION, SYSTEMS AND MATERIALS 1. National Accredited Rating for Your Building(s) These organizations have established energy-efficiency criteria. Qualifying applicants are encouraged to complete and attach the checklist from that certification (to be used for informational purposes only) and may then skip to Part III, "Consultation								
Rating System Passive House Institute Living Building Challenge LEED Energy Star None of the Above	www.usgbc.org							
1.6 Other 2. Energy Performance and Insulation, Zone 6 IECC								
N/A Method Attic or ceiling insulation exceeds NH/Town code Walls insulation exceeds NH/Town code Air leakage testing proposed Conventional slabs Radiant slabs Basement foundation Fenestration Hot water pipes Heating ducts inside envelope Heating ducts outside envelope	Proposed R ACH @ Pa R R R R R R R R R	Reference Chapter 38, Town Chapter 38, Town 3ACH@50Pa is NH/Town code						
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7. Landscaping and Covenant Terms Lower water use not only results in reduced water bills but also reduces electricity usage at the Town's water and wastewater treatment facilities.						
7.1						
PART III: CONSULTATION WITH BUILDING INSPECTOR Consultation with the Building Inspector can help highlight and solve potential problems early in the project design phase and reduce overall costs of code compliance. A consultation with the Building Inspector and a representative of the Durham Energy Committee is required prior to approval of any site plan or subdivision application. A follow-up consultation with the Building Inspector, after Planning Board approval, is encouraged and will generally occur as part of the building permit application process.						
<u>Consultation Notes</u> <u>Meeting Date</u> :						
Signature of Building Inspector:						

3. Cor	struc	tion I	Methods and Materials	
3 3.1 3.2 3.3 3.4	Y	N 	N/A Method Net zero construction, i.e., building uses less than or same amount of energy it gene Energy-efficient doors and windows (including screens) Recycled content materials Locally sourced materials where available	rates
4. Inte	ernal	Syste	ms	
4 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 4.10 4.11 4.12 4.13 4.14	Y		N/A Method Lighting: high efficiency Energy usage monitoring system(s), e.g., smart meters or submeters Energy-efficient appliances (refrigerators, stoves, air conditioners, ceiling fans, etc.) Cooling system efficiency Heating system efficiency High-efficiency heating system or heat pumps Renewable hot water system (e.g., solar thermal) Photovoltaic renewable electricity generation system (i.e., solar panels) Daylight management (active or passive shades, overhangs, e.g., film, sensors) Ability to charge electric vehicles Grey-water system (e.g., water from sinks or showers use for toilets or landscape) Mechanical ventilation: heat or energy recovery ventilator Water usage monitoring system(s) Cooling load reduction features, e.g., ceiling fans, solar-ray-blocking blinds	Proposed Type: SEER AFUE SF kW Level % efficient
			AND SITING CONSIDERATIONS	
5. So	lar Re	sour	e Utilization	
5 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9	Y	N	N/A Method Solar access (access of a solar energy system to unobstructed, direct sunlight) Solar-ready zone (a section of the roof or building overhang reserved for a future solar process solar thermal system with required internal conduit or plumbing pre-installed) Preservation of solar rights in subdivision or neighboring plots (e.g., solar skyspace ease or	ement) ergy system) enetration
6. Pa	rking	, Tran	sportation, Accessibility, and Connectivity	
6 6.1 6.2 6.3 6.4 6.5 6.6	Y	N	N/A Method Parking surcharges or incentives/rebates for tenants without cars ("no free parking") Compact car space designation Advanced technology and/or alternative-fuel car space designation (e.g., hybrids; "E85" Pedestrian sidewalk network within the project area Bicycle lane or path network within project area Storage for bicycles outdoors Please circle: secured unsecured covered uncountered storage for bicycles indoors Please circle: secured unsecured covered uncountered covered covered uncountered covered covered uncountered -	